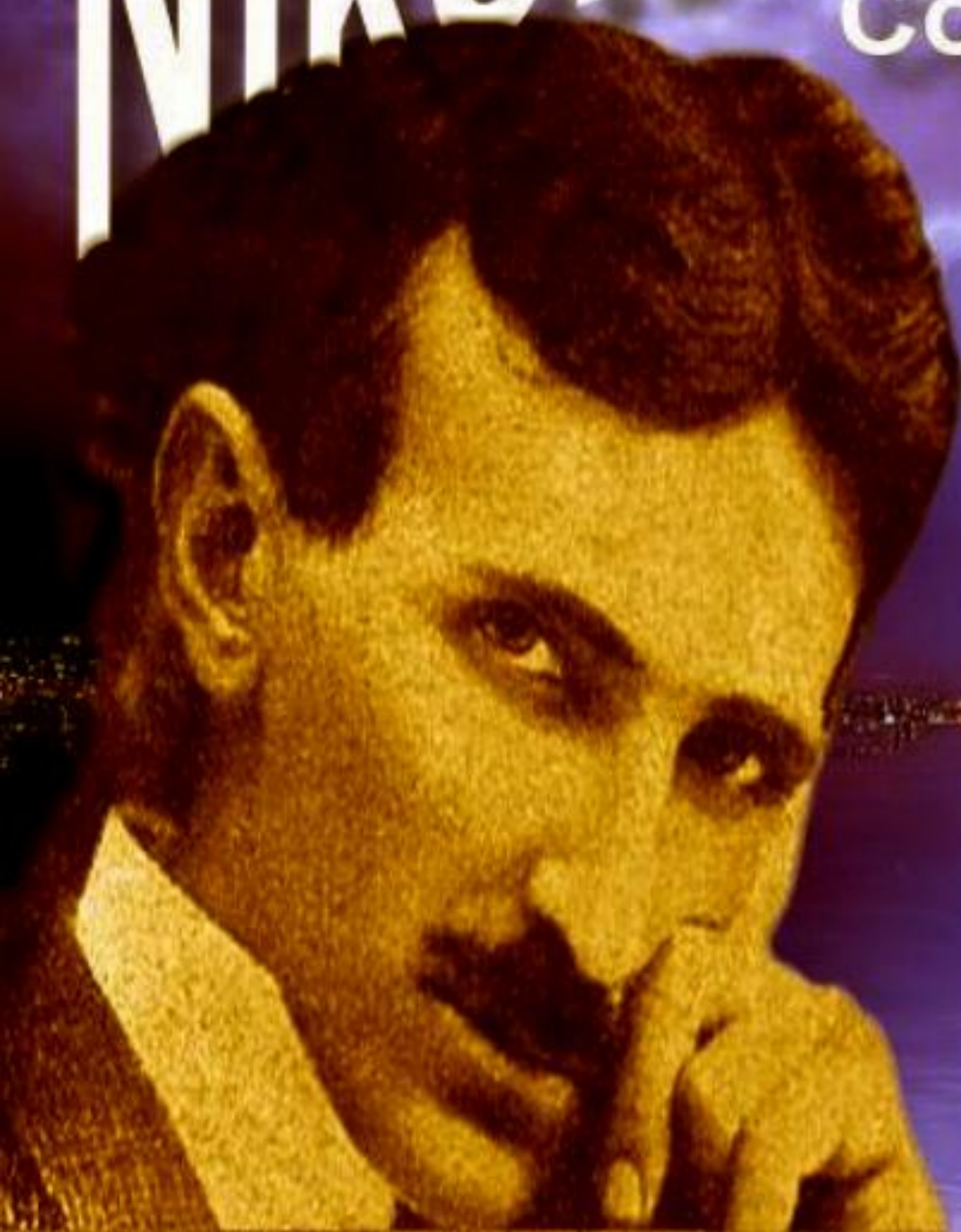


Nikola Tesla

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The Autobiography of Nikola Tesla

Chapter 1, My Early Life

The progressive development of man is vitally dependent on invention. It is the most important product of his creative brain. Its ultimate purpose is the complete mastery of mind over the material world, the harnessing of the forces of nature to human needs. This is the difficult task of the inventor who is often misunderstood and unrewarded. But he finds ample compensation in the pleasing exercises of his powers and in the knowledge of being one of that exceptionally privileged class without whom the race would have long ago perished in the bitter struggle against pitiless elements. Speaking for myself, I have already had more than my full measure of this exquisite enjoyment; so much, that for many years my life was little short of continuous rapture. I am credited with being one of the hardest workers and perhaps I am,

if thought is the equivalent of labour, for I have devoted to it almost all of my waking hours. But if work is interpreted to be a definite performance in a specified time according to a rigid rule, then I may be the worst of idlers.

Every effort under compulsion demands a sacrifice of life-energy. I never paid such a price. On the contrary, I have thrived on my thoughts. In attempting to give a connected and faithful account of my activities in this story of my life, I must dwell, however reluctantly, on the impressions of my youth and the circumstances and events which have been instrumental in determining my career. Our first endeavors are purely instinctive prompting of an imagination vivid and undisciplined. As we grow older reason asserts itself and we become more and more systematic and designing. But those early

impulses, though not immediately productive, are of the greatest moment and may shape our very destinies. Indeed, I feel now that had I understood and cultivated instead of suppressing them, I would have added substantial value to my bequest to the world. But not until I had attained manhood did I realize that I was an inventor.



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This was due to a number of causes. In the first place I had a brother who was gifted to an extraordinary degree; one of those rare phenomena of mentality which biological investigation has failed to explain.

His premature death left my earth parents disconsolate. (I will explain my remark about my "earth parents" later.) We owned a horse which had been presented to us by a dear friend. It was a magnificent animal of Arabian breed, possessed of almost human intelligence, and was cared for and petted by the whole family, having on one occasion saved my dear father's life under remarkable circumstances.



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My father had been called one winter night to perform an urgent duty and while crossing the mountains, infested by wolves, the horse became frightened and ran away, throwing him violently to the ground.

It arrived home bleeding and exhausted, but after the alarm was sounded, immediately dashed off again, returning to the spot, and before the searching party were far on the way they were met by my father,

who had recovered consciousness and remounted, not realising that he had been lying in the snow for several hours. This horse was responsible for my brother's injuries from which he died. I witnessed the tragic scene and although so many years have elapsed since, my visual impression of it has lost none of its force. The recollection of his attainments made every effort of mine seem dull in comparison. Anything I did that was creditable merely caused my parents to feel their loss more keenly. So I grew up with little confidence in myself.

But I was far from being considered a stupid boy, if I am to judge from an incident of which I have still a strong remembrance. One day the Aldermen were passing through a street where I was playing with other boys. The oldest of these venerable gentlemen, a wealthy citizen, paused to give a silver piece to each of us. Coming to me, he suddenly stopped and commanded, "Look in my eyes." I met his gaze, my hand outstretched to receive the much valued coin, when to my dismay, he said, "No, not much; you can get nothing from me. You are too smart."

They used to tell a funny story about me. I had two old aunts with wrinkled faces, one of them having two teeth protruding like the tusks of an elephant, which she buried in my cheek every time she kissed me.

Nothing would scare me more than the prospects of being by these affectionate, unattractive relatives. It happened that while being carried in my mother's arms, they asked who was the prettier of the two. After examining their faces intently, I answered thoughtfully, pointing to one of them, "This here is not as ugly as the other."



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Then again, I was intended from my very birth, for the clerical profession and this thought constantly oppressed me. I longed to be an engineer, but my father was inflexible. He was the son of an officer who served in the army of

the Great Napoleon and in common with his brother, professor of mathematics in a prominent institution, had received a military education; but, singularly enough, later embraced the clergy in which vocation he achieved eminence. He was a very erudite man, a veritable natural philosopher, poet and writer and his sermons were said to be as eloquent as those of Abraham a-Sancta-Clara. He had a prodigious memory and frequently recited at length from works in several languages.



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He often remarked playfully that if some of the classics were lost he could restore them. His style of writing was much admired. He penned sentences short and terse and full of wit and satire. The humorous remarks he made were always peculiar and characteristic. Just to illustrate, I may mention

one or two instances.

Among the help, there was a cross-eyed man called Mane, employed to do work around the farm. He was chopping wood one day. As he swung the axe, my father, who stood nearby and felt very uncomfortable, cautioned him, "For God's sake, Mane, do not strike at what you are looking but at what you intend to hit."

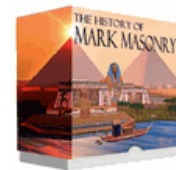
On another occasion he was taking out for a drive, a friend who carelessly permitted his costly fur coat to rub on the carriage wheel. My father reminded him of it saying, "Pull in your coat; you are ruining my tire."

He had the odd habit of talking to himself and would often carry on an animated conversation and indulge in heated argument, changing the tone of his voice. A casual listener might have sworn that several people were in the room.

Although I must trace to my mother's influence whatever inventiveness I possess, the training he gave me must have been helpful. It comprised all sorts of exercises - as, guessing one another's thoughts, discovering the defects of some form of expression,

repeating long sentences or performing mental calculations. These daily lessons were intended to strengthen memory and reason, and especially to develop the critical sense, and were undoubtedly very beneficial.

My mother descended from one of the oldest families in the country and a line of inventors. Both her father and grandfather originated numerous implements for household, agricultural and other uses. She was a truly great woman, of rare skill, courage and fortitude, who had braved the storms of life and passed through many a trying experience.



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When she was sixteen, a virulent pestilence swept the country. Her father was called away to administer the last sacraments to the dying and during his absence she went alone to the assistance of a neighboring family who

were stricken by. the dread disease. She bathed, clothed and laid out the bodies, decorating them with flowers according to the custom of the country and when her father returned he found everything ready for a Christian burial.



**ISLAM's
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My mother was an inventor of the first order and would, I believe, have achieved great things had she not been so remote from modern life and its multi-fold opportunities. She invented and constructed all kinds of tools and devices and wove the finest designs from thread which was spun by her. She even planted seeds, raised the plants and separated the fibres herself. She worked indefatigably, from break of day till late at night, and most of the wearing apparel and furnishings of the home were the product of her hands. When she was past sixty, her fingers were still nimble enough to tie three

knots in an eyelash.

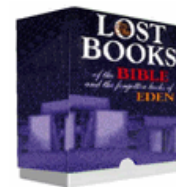
There was another and still more important reason for my late awakening. In my boyhood I suffered from a peculiar affliction due to the appearance of images, often accompanied by strong flashes of light, which marred the sight of real objects and interfered with my thoughts and action.

They were pictures of things and scenes which i had really seen, never of those imagined. When a word was spoken to me the image of the object it designated would present itself vividly to my vision and sometimes I was quite unable to distinguish whether what I saw was tangible or not.

This caused me great discomfort and anxiety. None of the students of psychology or physiology whom i have consulted, could ever explain satisfactorily these phenomenon. They seem to have been unique although I was probably predisposed as I know that my brother experienced a similar trouble.

The theory I have formulated is that the images were the result of a reflex action from the brain on the retina under great excitation. They certainly

were not hallucinations such as are produced in diseased and anguished minds, for in other respects i was normal and composed. To give an idea of my distress, suppose that I had witnessed a funeral or some such nerve-wracking spectacle. The, inevitably, in the stillness of night, a vivid picture of the scene would thrust itself before my eyes and persist despite all my efforts to banish it. If my explanation is correct, it should be possible to project on a screen the image of any object one conceives and make it visible. Such an advance would revolutionize all human relations. I am convinced that this wonder can and will be accomplished in time to come. I may add that I have devoted much thought to the solution of the problem.



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I have managed to reflect such a picture, which i have seen in my mind, to the mind of another person, in

another room. To free myself of these tormenting appearances, I tried to concentrate my mind on something else I had seen, and in this way I would often obtain temporary relief; but in order to get it I had to conjure continuously new images. It was not long before I found that I had exhausted all of those at my command; my 'reel' had run out as it were, because I had seen little of the world -- only objects in my home and the immediate surroundings. As I performed these mental operations for the second or third time, in order to chase the appearances from my vision, the remedy gradually lost all its force.



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Then I instinctively commenced to make excursions beyond the limits of the small world of which I had knowledge, and I saw new scenes. These were at first very blurred and indistinct, and would flit away when I tried to

concentrate my attention upon them. They gained in strength and distinctness and finally assumed the concreteness of real things.

I soon discovered that my best comfort was attained if I simply went on in my vision further and further, getting new impressions all the time, and so I began to travel; of course, in my mind. Every night, (and sometimes during the day), when alone, I would start on my journeys -- see new places, cities and countries; live there, meet people and make friendships and acquaintances and, however unbelievable, it is a fact that they were just as dear to me as those in actual life, and not a bit less intense in their manifestations.

This I did constantly until I was about seventeen, when my thoughts turned seriously to invention. Then I observed to my delight that I could visualize with the greatest facility. I needed no models, drawings or experiments. I could picture them all as real in my mind. Thus I have been led unconsciously to evolve what I consider a new method of materializing inventive concepts and ideas, which is radially opposite to the purely experimental and is in my

opinion ever so much more expeditious and efficient.

The moment one constructs a device to carry into practice a crude idea, he finds himself unavoidably engrossed with the details of the apparatus. As he goes on improving and reconstructing, his force of concentration diminishes and he loses sight of the great underlying principle.



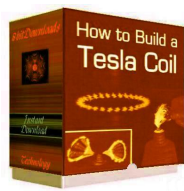
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Results may be obtained, but always at the sacrifice of quality. My method is different. I do not rush into actual work. When I get an idea, I start at once building it up in my imagination. I change the construction, make improvements and operate the device in my mind. It is absolutely immaterial to me whether I run my turbine in thought or test it in my shop. I even note if it is out of balance. There is no difference whatever; the results are the same. In this way I am able to rapidly develop and perfect a

conception without touching anything. When I have gone so far as to embody in the invention every possible improvement I can think of and see no fault anywhere, I put into concrete form this final product of my brain.



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Invariably my device works as I conceived that it should, and the experiment comes out exactly as I planned it. In twenty years there has not been a single exception. Why should it be otherwise? Engineering, electrical and mechanical, is positive in results. There is scarcely a subject that cannot be examine beforehand, from the available theoretical and practical data. The carrying out into practice of a crude idea as is being generally done, is, I hold, nothing but a waste of energy, money, and time.

My early affliction had however, another compensation. The

incessant mental exertion developed my powers of observation and enabled me to discover a truth of great importance. I had noted that the appearance of images was always preceded by actual vision of scenes under peculiar and generally very exceptional conditions, and I was impelled on each occasion to locate the original impulse. After a while this effort grew to be almost automatic and I gained great facility in connecting cause and effect. Soon I became aware, to my surprise, that every thought I conceived was suggested by an external impression.

Not only this but all my actions were prompted in a similar way. In the course of time it became perfectly evident to me that I was merely an automation endowed with power

O F M O V E M E N T RESPONDING TO THE STIMULI OF THE SENSE ORGANS AND THINKING A N D A C T I N G ACCORDINGLY.

The practical result of this was the art of teleautomatics which has been so far carried out only in an imperfect manner. Its latent possibilities will, however be

eventually shown. I have been years planning self-controlled automata and believe that mechanisms can be produced which will act as if possessed of reason, to a limited degree, and will create a revolution in many commercial and industrial departments. I was about twelve years of age when I first succeeded in banishing an image from my vision by wilful effort, but I never had any control over the flashes of light to which I have referred. They were, perhaps, my strangest and [most] inexplicable experience. They usually occurred when I found myself in a dangerous or distressing situations or when I was greatly exhilarated. In some instances I have seen all the air around me filled with tongues of living flame.

Their intensity, instead of diminishing, increased with time and seemingly attained a maximum when I was about twenty-five years old.

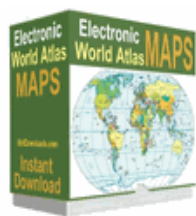


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While in Paris in 1883, a prominent French manufacturer sent me an invitation to a shooting expedition which I accepted. I had been long confined to the factory and the fresh air had a wonderfully invigorating effect on me. On my return to the city that night, I felt a positive sensation that my brain had caught fire. I was a light as though a small sun was located in it and I passed the whole night applying cold compressions to my tortured head. Finally the flashes diminished in frequency and force but it took more than three weeks before they wholly subsided. When a second invitation was extended to me, my answer was an emphatic NO!



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These luminous phenomena still manifest themselves from time to time, as when a new idea opening up possibilities strikes me, but they are no longer exciting,

being of relatively small intensity. When I close my eyes I invariably observe first, a background of very dark and uniform blue, not unlike the sky on a clear but starless night. In a few seconds this field becomes animated with innumerable scintillating flakes of green, arranged in several layers and advancing towards me. Then there appears, to the right, a beautiful pattern of two systems of parallel and closely spaced lines, at right angles to one another, in all sorts of colors with yellow, green, and gold predominating. Immediately thereafter, the lines grow brighter and the whole is thickly sprinkled with dots of twinkling light. This picture moves slowly across the field of vision and in about ten seconds vanishes on the left, leaving behind a ground of rather unpleasant and inert grey until the second phase is reached.

Every time, before falling asleep, images of persons or objects flit before my view. When I see them I know I am about to lose consciousness. If they are absent and refuse to come, it means a sleepless night. To what an extent imagination played in my early life, I may illustrate by another odd experience.

Like most children, I was fond of jumping and developed an intense desire to support myself in the air. Occasionally a strong wind richly charged with oxygen blew from the mountains, rendering my body light as cork and then I would leap and float in space for a long time. It was a delightful sensation and my disappointment was keen when later I undeceived myself.



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During that period I contracted many strange likes, dislikes and habits, some of which I can trace to external impressions while others are unaccountable. I had a violent aversion against the earing of women, but other ornaments, as bracelets, pleased me more or less according to design. The sight of a pearl would almost give me a fit, but I was fascinated with the glitter of crystals or objects with sharp edges and plane surfaces. I would not touch the hair of other people

except, perhaps at the point of a revolver. I would get a fever by looking at a peach and if a piece of camphor was anywhere in the house it caused me the keenest discomfort. Even now I am not insensible to some of these upsetting impulses.



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When I drop little squares of paper in a dish filled with liquid, I always sense a peculiar and awful taste in my mouth. I counted the steps in my walks and calculated the cubical contents of soup plates, coffee cups and pieces of food, otherwise my meal was unenjoyable. All repeated acts or operations I performed had to be divisible by three and if I missed I felt impelled to do it all over again, even if it took hours. Up to the age of eight years, my character was weak and vacillating. I had neither courage or strength to form a firm resolve. My feelings came in waves and surges and varied unceasingly

between extremes. My wishes were of consuming force and like the heads of the hydra, they multiplied. I was oppressed by thoughts of pain in life and death and religious fear. I was swayed by superstitious belief and lived in constant dread of the spirit of evil, of ghosts and ogres and other unholy monsters of the dark. Then all at once, there came a tremendous change which altered the course of my whole existence.

Of all things I liked books best. My father had a large library and whenever I could manage I tried to satisfy my passion for reading. He did not permit it and would fly in a rage when he caught me in the act. He hid the candles when he found that I was reading in secret. He did not want me to spoil my eyes. But I obtained tallow, made the wicking and cast the sticks into tin forms, and every night I would bush the keyhole and the cracks and read, often till dawn, when all others slept and my mother started on her arduous daily task.

On one occasion I came across a novel entitled 'Aoafi,' (the son of Aba), a Serbian translation of a well known Hungarian writer, Josika. This work somehow

awakened my dormant powers of will and I began to practice self-control. At first my resolutions faded like snow in April, but in a little while I conquered my weakness and felt a pleasure I never knew before -- that of doing as I willed.



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In the course of time this vigorous mental exercise became second to nature. At the outset my wishes had to be subdued but gradually desire and will grew to be identical. After years of such discipline I gained so complete a mastery over myself that I toyed with passions which have meant destruction to some of the strongest men. At a certain age I contracted a mania for gambling which greatly worried my parents. To sit down to a game of cards was for me the quintessence of pleasure. My father led an exemplary life and could not excuse the senseless waste of my time and money in which I indulged.

I had a strong resolve, but my philosophy was bad. I would say to him, 'I can stop whenever I please, but it worth while to give up that which I would purchase with the joys of paradise?'

On frequent occasions he gave vent to his anger and contempt, but my mother was different. She understood the character of men and knew that one's salvation could only be brought about through his own efforts.



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One afternoon, I remember, when I had lost all my money and was craving for a game, she came to me with a roll of bills and said, 'Go and enjoy yourself. The sooner you lose all we possess, the better it will be. I know that you will get over it.' She was right. I conquered my passion then and there and only regretted that it had not been a hundred times as strong. I not only

vanquished but tore it from my heart so as not to leave even a trace of desire.

Ever since that time I have been as indifferent to any form of gambling as to picking teeth. During another period I smoked excessively, threatening to ruin my health. Then my will asserted itself and I not only stopped but destroyed all inclination. Long ago I suffered from heart trouble until I discovered that it was due to the innocent cup of coffee I consumed every morning. I discontinued at once, though I confess it was not an easy task. In this way I checked and bridled other habits and passions, and have not only preserved my life but derived an immense amount of satisfaction from what most men would consider privation and sacrifice.

After finishing the studies at the Polytechnic Institute and University, I had a complete nervous breakdown and while the malady lasted I observed many phenomena, strange and unbelievable...

Chapter 2

I shall dwell briefly on these extraordinary experiences, on account of their possible interest to students of

psychology and physiology and also because this period of agony was of the greatest consequence on my mental development and subsequent labours. But it is indispensable to first relate the circumstances and conditions which preceded them and in which might be found their partial explanation.



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From childhood I was compelled to concentrate attention upon myself. This caused me much suffering, but to my present view, it was a blessing in disguise for it has taught me to appreciate the inestimable value of introspection in the preservation of life, as well as a means of achievement.

The pressure of occupation and the incessant stream of impressions pouring into our consciousness through all the gateways of knowledge make modern existence hazardous in many ways. Most persons are so absorbed in the

contemplation of the outside world that they are wholly oblivious to what is passing on within themselves. The premature death of millions is primarily traceable to this cause. Even among those who exercise care, is a common mistake to avoid imaginary, and ignore the real dangers. And what is true of an individual also applies, more or less, to a people as a whole.



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Abstinence was not always to my liking, but I find ample reward in the agreeable experiences I am now making. Just in the hope of converting some to my precepts and convictions I will recall one or two.

A short time ago I was returning to my hotel. It was a bitter cold night, the ground slippery, and no taxi to be had. Half a block behind me followed another man, evidently as anxious as myself to get under cover.

Suddenly my legs went up in the air. At the same instant there was a flash in my brain. The nerves responded, the muscles contracted. I swung 180 degrees and landed on my hands. I resumed my walk as though nothing had happened when the stranger caught up with me. "How old are you?" he asked, surveying me critically.

"Oh, about fifty-nine," I replied, "What of it?" "Well," said he, "I have seen a cat do this but never a man." About a month ago I wanted to order new eye glasses and went to an oculist who put me through the usual tests. He looked at me incredulously as I read off with ease the smallest print at considerable distance. But when I told him I was past sixty he gasped in astonishment.

Friends of mine often remark that my suits fit me like gloves but they do not know that all my clothing is made to measurements which were taken nearly fifteen years ago and never changed. During this same period my weight has not varied one pound. In this connection I may tell a funny story.

One evening, in the winter of 1885, Mr. Edison,

Edward H. Johnson, the President of the Edison Illuminating Company, Mr. Batchellor, Manager of the works, and myself, entered a little place opposite 65 Firth Avenue, where the offices of the company were located. Someone suggested guessing weights and I was induced to step on a scale. Edison felt me all over and said: "Tesla weighs 152 lbs. to an ounce," and he guessed it exactly. Stripped I weighed 142 pounds, and that is still my weight. I whispered to Mr. Johnson; "How is it possible that Edison could guess my weight so closely?"



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"Well," he said, lowering his voice. "I will tell you confidentially, but you must not say anything. He was employed for a long time in a Chicago slaughter-house where he weighed thousands of hogs every day. That's why."

My friend, the Hon. Chauncey M. Dupew, tells

of an Englishman on whom he sprung one of his original anecdotes and who listened with a puzzled expression, but a year later, laughed out loud. I will frankly confess. it took me longer than that to appreciate Johnson's joke.



**America's
Ancient
Civilization
Mayan/Aztec**

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Now, my well-being is simply the result of a careful and measured mode of living and perhaps the most astonishing thing is that three times in my youth I was rendered by illness a hopeless physical wreck and given up by physicians. MORE than this, through i g n o r a n c e and lightheartedness, I got into all sorts of difficulties, dangers and scrapes from which I extricated myself as by enchantment. I was almost drowned, entombed, lost and frozen. I had hair-breadth escapes from mad dogs, hogs, and other wild animals. I passed through dreadful diseases and met with all kinds of odd mishaps and that I am whole and hearty today

seems like a miracle. But as I recall these incidents to my mind I feel convinced that my preservation was not altogether accidental, but was indeed the work of divine power. An inventor's endeavor is essentially life saving. Whether he harnesses forces, improves devices, or provides new comforts and conveniences, he is adding to the safety of our existence. He is also better qualified than the average individual to protect himself in peril, for he is observant and resourceful. If I had no other evidence that I was, in a measure, possessed of such qualities, I would find it in these personal experiences. The reader will be able to judge for himself if I mention one or two instances.

On one occasion, when about fourteen years old, I wanted to scare some friends who were bathing with me. My plan was to dive under a long floating structure and slip out quietly at the other end. Swimming and diving came to me as naturally as to a duck and I was confident that I could perform the feat. Accordingly I plunged into the water and, when out of view, turned around and proceeded rapidly towards the opposite side.

Thinking that I was safely beyond the structure, I rose to the surface but to my dismay struck a beam. Of course, I quickly dived and forged ahead with rapid strokes until my breath was beginning to give out. Rising for the second time, my head came again in contact with a beam. Now I was becoming desperate. However, summoning all my energy, I made a third frantic attempt but the result was the same. The torture of suppressed breathing was getting unendurable, my brain was reeling and I felt myself sinking. At that moment, when my situation seemed absolutely hopeless, I experienced one of those flashes of light and the structure above me appeared before my vision.



**ANCIENT
AZTECS
Sun Kingdoms
of the
Americas**

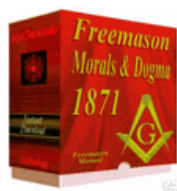
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I either discerned or guessed that there was a little space between the surface of the water and the boards resting on the

beams and, with consciousness nearly gone,

I floated up, pressed my mouth close to the planks and managed to inhale a little air, unfortunately mingled with a spray of water which nearly choked me. Several times I repeated this procedure as in a dream until my heart, which was racing at a terrible rate, quieted down, and I gained composure. After that I made a number of unsuccessful dives, having completely lost the sense of direction, but finally succeeded in getting out of the trap when my friends had already given me up and were fishing for my body. That bathing season was spoiled for me through recklessness but I soon forgot the lesson and only two years later I fell into a worse predicament.



**Freemason
MORALS
&
DOGMA**
Albert Pike

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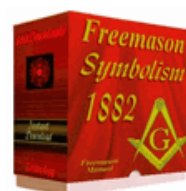
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There was a large flour mill with a dam across the river near the city where I was

studying at the time. As a rule the height of the water was only two or three inches above the dam and to swim to it was a sport not very dangerous in which I often indulged. One day I went alone to the river to enjoy myself as usual.

When I was a short distance from the masonry, however, I was horrified to observe that the water had risen and was carrying me along swiftly. I tried to get away but it was too late. Luckily, though, I saved myself from being swept over by taking hold of the wall with both hands. The pressure against my chest was great and I was barely able to keep my head above the surface. Not a soul was in sight and my voice was lost in the roar of the fall. Slowly and gradually I became exhausted and unable to withstand the strain longer. Just as I was about to let go, to be dashed against the rocks below, I saw in a flash of light a familiar diagram illustrating the hydraulic principle that the pressure of a fluid in motion is proportionate to the area exposed and automatically I turned on my left side. As if by magic, the pressure was reduced and I found it comparatively easy in that position to resist the force of the stream. But the danger

still confronted me. I knew that sooner or later I would be carried down, as it was not possible for any help to reach me in time, even if I had attracted attention. I am ambidextrous now, but then I was left-handed and had comparatively little strength in my right arm.



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1882
Symbolism**
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For this reason I did not dare to turn on the other side to rest and nothing remained but to slowly push my body along the dam. I had to get away from the mill towards which my face was turned, as the current there was much swifter and deeper. It was a long and painful ordeal and I came near to failing at its very end, for I was confronted with a depression in the masonry. I managed to get over with the last ounce of my strength and fell in a swoon when I reached the bank, where I was found. I had torn virtually all the skin from my left side and it took several weeks before

the fever had subsided and I was well. These are only two of many instanced, but they may be sufficient to show that had it not been for the inventor's instinct, I would not have lived to tell the tale.



History of the Knights Templar

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Interested people have often asked me how and when I began to invent. This I can only answer from my present recollection in the light of which, the first attempt I recall was rather ambitious for it involved the invention of an apparatus and a method. In the former I was anticipated, but the later was original. It happened in this way. One of my playmates had come into the possession of a hook and fishing tackle which created quite an excitement in the village, and the next morning all started out to catch frogs. I was left alone and deserted owing to a quarrel with this boy. I had never seen a real hook and

pictured it as something wonderful, endowed with peculiar qualities, and was despairing not to be one of the party. Urged by necessity, I somehow got hold of a piece of soft iron wire, hammered the end to a sharp point between two stones, bent it into shape, and fastened it to a strong string. I then cut a rod, gathered some bait, and went down to the brook where there were frogs in abundance. But I could not catch any and was almost discouraged when it occurred to me dangle the empty hook in front of a frog sitting on a stump. At first he collapsed but by and by his eyes bulged out and became bloodshot, he swelled to twice his normal size and made a vicious snap at the hook. Immediately I pulled him up. I tried the same thing again and again and the method proved infallible.

When my comrades, who in spite of their fine outfit had caught nothing, came to me, they were green with envy. For a long time I kept my secret and enjoyed the monopoly but finally yielded to the spirit of Christmas.

Every boy could then do the same and the following summer brought disaster to the frogs.

In my next attempt, I seem to have acted under the first instinctive impulse which later dominated me, -- to harness the energies of nature to the service of man. I did this through the medium of May bugs, or June bugs as they are called in America, which were a veritable pest in that country and sometimes broke the branches of trees by the sheer weight of their bodies. The bushes were black with them. I would attach as many as four of them to a cross-piece, ratably arranged on a thin spindle, and transmit the motion of the same to a large disc and so derive considerable 'power.'



The Order of SKULL & BONES Secret Society

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These creatures were remarkably efficient, for once they were started, they had no sense to stop and continued whirling for hours and hours and the hotter it was, the harder they worked. All went well until a strange

boy came to the place. He was the son of a retired officer in the Austrian army. That urchin ate May-bugs alive and enjoyed them as though they were the finest blue-point oysters. That disgusting sight terminated my endeavors in this promising field and I have never since been able to touch a May-bug or any other insect for that matter.

After that, I believe, I undertook to take apart and assemble the clocks of my grandfather. In the former operation I was always successful, but often failed in the latter. So it came that he brought my work to a sudden halt in a manner not too delicate and it took thirty years before I tackled another clockwork again.



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Shortly thereafter, I went into the manufacture of a kind of pop-gun which comprised a hollow tube, a piston, and two plugs of

hemp. When firing the gun, the piston was pressed against the stomach and the tube was pushed back quickly with both hands. the air between the plugs was compressed and raised to a high temperature and one of them was expelled with a loud report. The art consisted in selecting a tube of the proper taper from the hollow stalks which were found in our garden. I did very well with that gun, but my activities interfered with the window panes in our house and met with painful discouragement.

If I remember rightly, I then took to carving swords from pieces of furniture which I could conveniently obtain. At that time I was under the sway of the Serbian national poetry and full of admiration for the feats of the heroes. I used to spend hours in mowing down my enemies in the form of corn-stalks which ruined the crops and netted me several spankings from my mother. Moreover, these were not of the formal kind but the genuine article.

I had all this and more behind me before I was six years old and had passed through one year of elementary school in the village of Smiljan where my family lived. At this juncture

we moved to the little city of Gospic nearby. This change of residence was like a calamity to me. It almost broke my heart to part from our pigeons, chickens and sheep, and our magnificent flock of geese which used to rise to the clouds in the morning and return from the feeding grounds at sundown in battle formation, so perfect that it would have put a squadron of the best aviators of the present day to shame. In our new house I was but a prisoner, watching the strange people I saw through my window blinds. My bashfulness was such that I would rather have faced a roaring lion than one of the city dudes who strolled about. But my hardest trial came on Sunday when I had to dress up and attend the service.



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There I met with an accident, the mere thought of which made my blood curdle like sour milk for

years afterwards. It was my second adventure in a church. Not long before, I was entombed for a night in an old chapel on an inaccessible mountain which was visited only once a year.

It was an awful experience, but this one was worse.

There was a wealthy lady in town, a good but pompous woman, who used to come to the church gorgeously painted up and attired with an enormous train and attendants.



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One Sunday I had just finished ringing the bell in the belfry and rushed downstairs, when this grand dame was sweeping out and I jumped on her train. It tore off with a ripping noise which sounded like a salvo of musketry fired by raw recruits. My father was livid with rage. He gave me a gentle slap on the cheek, the only corporal punishment he ever

administered to me, but I almost feel it now. The embarrassment and confusion that followed are indescribably. I was practically ostracized until something else happened which redeemed me in the estimation of the community an enterprising young merchant had organized a fire department.

A new fire engine was purchased, uniforms provided and the men drilled for service and parade. The engine was beautifully painted red and black. One afternoon, the official trial was prepared for and the machine was transported to the river.

The entire population turned out to witness the great spectacle. When all the speeches and ceremonies were concluded, the command was given to pump, but not a drop of water came from the nozzle.

The professors and experts tried in vain to locate the trouble. The fizzle was complete when I arrived at the scene. My knowledge of the mechanism was nil and I knew next to nothing of air pressure, but instinctively I felt for the suction hose in the water and found that it had collapsed. When I waded in

the river and opened it up, the water rushed forth and not a few Sunday clothes were spoiled. Archimedes running naked through the streets of Syracuse and shouting Eureka at the top of his voice did not make a greater impression than myself. I was carried on the shoulders and was hero of the day.

Upon settling in the city I began a four years course in the so-called Normal School preparatory to my studies at the College or Real-Gymnasium. During this period my boyish efforts and exploits as well as troubles, continued.

Among other things, I attained the unique distinction of champion crow catcher in the country.



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WORLD
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My method of procedure was extremely simple. I would go into the forest, hide in the bushes, and imitate the call of the birds.

Usually I would get several answers and in a short while a crow would flutter down into the shrubbery near me. After that, all I needed to do was to throw a piece of cardboard to detract its attention, jump up and grab it before it could extricate itself from the undergrowth. In this way I would capture as many as I desired. But on one occasion something occurred which made me respect them. I had caught a fine pair of birds and was returning home with a friend. When we left the forest, thousands of crows had gathered making a frightful racket. In a few minutes they rose in pursuit and soon enveloped us. The fun lasted until all of a sudden I received a blow on the back of my head which knocked me down. Then they attacked me viciously.



**ANCIENT
SYMBOLS
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I was compelled to release the two birds and was glad to join my friend who had

taken refuge in a cave.

In the school room there were a few mechanical models which interested me and turned my attention to waterturbines. I constructed many of these and found great pleasure in operating them. How extraordinary was my life an incident may illustrate. My uncle had no use for this kind of pastime and more than once rebuked me. I was fascinated by a description of Niagara Falls I had perused, and pictured in my imagination a big wheel run by the falls. I told my uncle that I would go to America and carry out this scheme. Thirty years later I was my ideas carried out at Niagara and marveled at the unfathomable mystery of the mind.

I made all kinds of other contrivances and contraptions but among those, the arbalists I produced were the best. My arrows, when short, disappeared from sight and at close range traversed a plank of pine one inch thick.

Through the continuous tightening of the bows I developed a skin on my stomach much like that of a crocodile and I am often wondering whether it is due to this exercise that I am able even now to digest cobble-stones! Nor can I

pass in silence my performances with the sling which would have enabled me to give a stunning exhibit at the Hippodrome. And now I will tell of one of my feats with this unique implement of war which will strain to the utmost the credulity of the reader.



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I was practicing while walking with my uncle along the river. The sun was setting, the trout were playful and from time to time one would shoot up into the air, its glistening body sharply defined against a projecting rock beyond. Of course any boy might have hit a fish under these propitious conditions but I undertook a much more difficult task and I foretold to my uncle, to the minutest detail, what I intended doing. I was to hurl a stone to meet the fish, press its body against the rock, and cut it in two.

It was no sooner said than done. My uncle looked at

me almost scared out of his wits and exclaimed "Vade retra Satanae!" and it was a few days before he spoke to me again. Other records, however great, will be eclipsed but I feel that I could peacefully rest on my laurels for a thousand years.



NATURAL CURES and Treatments

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Chapter 3

How Tesla Conceived The Rotary Magnetic Field at the age of ten I entered the Real gymnasium which was a new and fairly well equipped institution. In the department of physics were various models of classical scientific apparatus, electrical and mechanical.

The demonstrations and experiments performed from time to time by the instructors fascinated me and were undoubtedly a powerful incentive to invention. I was also

passionately fond of mathematical studies and often won the professor's praise for rapid calculation. This was due to my acquired facility of visualizing the figures and performing the operation, not in the usual intuitive manner, but as in actual life. Up to a certain degree of complexity it was absolutely the same to me whether I wrote the symbols on the board or conjured them before my mental vision. But freehand drawing, to which many hours of the course were devoted, was an annoyance I could not endure. This was rather remarkable as most of the members of the family excelled in it.

Perhaps my aversion was simply due to the predilection I found in undisturbed thought. Had it not been for a few exceptionally stupid boys, who could not do anything at all, my record would have been the worst.

It was a serious handicap as under the then existing educational regime drawing being obligatory, this deficiency threatened to spoil my whole career and my father had considerable trouble in rail-roading me from one class to another.

In the second year at that institution I became

obsessed with the idea of producing continuous motion through steady air pressure. The pump incident, of which I have been told, had set afire my youthful imagination and impressed me with the boundless possibilities of a vacuum. I grew frantic in my desire to harness this inexhaustible energy but for a long time I was groping in the dark. Finally, however, my endeavors crystallized in an invention which was to enable me to achieve what no other mortal ever attempted. Imagine a cylinder freely rotatable on two bearings and partly surrounded by a rectangular trough which fits it perfectly. The open side of the trough is enclosed by a partition so that the cylindrical segment within the enclosure divides the latter into two compartments entirely separated from each other by air-tight sliding joints.



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One of these compartments being sealed and once for all exhausted, the other remaining open, a perpetual rotation of the cylinder would result. At least, so I thought.

A wooden model was constructed and fitted with infinite care and when I applied the pump on one side and actual observed that there was a tendency to turning, I was delirious with joy. Mechanical flight was the one thing I wanted to accomplish although still under the discouraging recollection of a bad fall I sustained by jumping with an umbrella from the top of a building.



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MOSAICS
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Every day I used to transport myself through the air to distant regions but could not understand just how I managed to do it. Now I had something concrete, a flying machine with nothing more than a rotating shaft, flapping wings, and; - a vacuum of

unlimited power!

From that time on I made my daily aerial excursions in a vehicle of comfort and luxury as might have befitted King Solomon. It took years before I understood that the atmospheric pressure acted at right angles to the surface of the cylinder and that the slight rotary effort I observed was due to a leak!

Though this knowledge came gradually it gave me a painful shock.

I had hardly completed my course at the Real Gymnasium when I was prostrated with a dangerous illness or rather, a score of them, and my condition became so desperate that I was given up by physicians. During this period I was permitted to read constantly, obtaining books from the Public Library which had been neglected and entrusted to me for classification of the works and preparation of catalogues.

One day I was handed a few volumes of new literature unlike anything I had ever read before and so captivating as to make me utterly forget me hopeless state. They were the earlier works of Mark Twain and to them might have been due the miraculous recovery

which followed.

Twenty-five years later, when I met Mr. Clements and we formed a friendship between us, I told him of the experience and was amazed to see that great man of laughter burst into tears...



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CASTING
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My studies were continued at the higher Real Gymnasium in Carlstadt, Croatia, where one of my aunts resided. She was a distinguished lady, the wife of a Colonel who was an old war-horse having participated in many battles, I can never forget the three years I passed at their home. No fortress in time of war was under a more rigid discipline. I was fed like a canary bird. All the meals were of the highest quality and deliciously prepared, but short in quantity by a thousand percent. The slices of ham cut by my aunt were like tissue paper. When the Colonel would

put something substantial on my plate she would snatch it away and say excitedly to him; "Be careful. Niko is very delicate."

I had a voracious appetite and suffered like Tantalus. But I lived in an atmosphere of refinement and artistic taste quite unusual for those times and conditions. The land was low and marshy and malaria fever never left me while there despite the enormous amounts of gin I consumed.

Occasionally the river would rise and drive an army of rats into the buildings, devouring everything, even to the bundles of fierce paprika.



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These pests were to me a welcome diversion. I thinned their ranks by all sorts of means, which won me the unenviable distinction of rat-catcher in the community. At last,

however, my course was completed, the misery ended, and I obtained the certificate of maturity which brought me to the cross-roads.

During all those years my parents never wavered in their resolve to make me embrace the clergy, the mere thought of which filled me with dread. I had become intensely interested in electricity under the stimulating influence of my Professor of Physics, who was an ingenious man and often demonstrated the principles by apparatus of his own invention. Among these I recall a device in the shape of a freely rotatable bulb, with tinfoil coating, which was made to spin rapidly when connected to a static machine. It is impossible for me to convey an adequate idea of the intensity of feeling I experienced in witnessing his exhibitions of these mysterious phenomena.

Every impression produced a thousand echoes in my mind. I wanted to know more of this wonderful force; I longed for experiment and investigation and resigned myself to the inevitable with aching heart. Just as I was making ready for the long journey home I received word that my father wished

me to go on a shooting expedition. It was a strange request as he had been always strenuously opposed to this kind of sport. But a few days later I learned that the cholera was raging in that district and, taking advantage of an opportunity, I returned to Gospic in disregard to my parent's wishes. It is incredible how absolutely ignorant people were as to the causes of this scourge which visited the country in intervals of fifteen to twenty years. They thought that the deadly agents were transmitted through the air and filled it with pungent odors and smoke. In the meantime they drank infested water and died in heaps. I contracted the dreadful disease on the very day of my arrival and although surviving the crisis, I was confined to bed for nine months with scarcely any ability to move. My energy was completely exhausted and for the second time I found myself at Death's door.



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In one of the sinking spells which was thought to be the last, my father rushed into the room. I still see his pallid face as he tried to cheer me in tones belying his assurance. "Perhaps," I said, "I may get well if you will let me study engineering." "You will go to the best technical institution in the world," he solemnly replied, and I knew that he meant it. A heavy weight was lifted from my mind but the relief would have come too late had it not been for a marvelous cure brought through a bitter decoction of a peculiar bean. I came to life like Lazarus to the utter amazement of everybody.



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My father insisted that I spend a year in healthful physical outdoor exercise to which I reluctantly consented. For most of this term I roamed in the mountains, loaded with a hunter's outfit and a bundle of books, and this contact

with nature made me stronger in body as well as in mind. I thought and planned, and conceived many ideas almost as a rule delusive. The vision was clear enough but the knowledge of principles was very limited. In one of my invention I proposed to convey letters and packages across the seas, through a submarine tube, in spherical containers of sufficient strength to resist the hydraulic pressure. The pumping plant, intended to force the water through the tube, was accurately figured and designed and all other particulars carefully worked out. Only one trifling detail, of no consequence, was lightly dismissed. I assumed an arbitrary velocity of the water and, what is more, took pleasure in making it high, thus arriving at a stupendous performance supported by faultless calculations.

Subsequent reflections, however, on the resistance of pipes to fluid flow induced me to make this invention public property. Another one of my projects was to construct a ring around the equator which would, of course, float freely and could be arrested in its spinning motion by reactionary forces, thus enabling travel at a rate of about one thousand miles an

hour, impracticable by rail. The reader will smile.

The plan was difficult of execution, I will admit, but not nearly so bad as that of a well known New York professor, who wanted to pump the air from the torrid to temperate zones, entirely forgetful of the fact that the Lord had provided a gigantic machine for this purpose.

Still another scheme, far more important and attractive, was to derive power from the rotational energy of terrestrial bodies. I had discovered that objects on the earth's surface owing to the diurnal rotation of the globe, are carried by the same alternately in and against the direction of translatory movement.



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for
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From this results a great change in momentum which could be utilized in the simplest imaginable manner to furnish motive

effort in any habitable region of the world. I cannot find words to describe my disappointment when later I realized that I was in the predicament of Archimedes, who vainly sought for a fixed point in the universe.

At the termination of my vacation I was sent to the Poly-Technic School in Gratz, Styria (Austria), which my father had chosen as one of the oldest and best reputed institutions. That was the moment I had eagerly awaited and I began my studies under good auspices and firmly resolved to succeed. My previous training was above average, due to my father's teaching and opportunities afforded.



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I had acquired the knowledge of a number of languages and waded through the books of several libraries, picking up information more or less

useful. Then again, for the first time, I could choose my subjects as I liked, and free-hand drawing was to bother me no more.

I had made up my mind to give my parents a surprise, and during the whole first year I regularly started my work at three o'clock in the morning and continued until eleven at night, no Sundays or holidays excepted. As most of my fellow-students took things easily, naturally I eclipsed all records. In the course of the year I passed through nine exams and the professors thought I deserved more than the highest qualifications.

Armed with their flattering certificated, I went home for a short rest, expecting triumph, and was mortified when my father made light of these hard-won honors.

That almost killed my ambition; but later, after he had died, I was pained to find a package of letters which the professors had written to him to the effect that unless he took me away from the Institution I would be killed through overwork. Thereafter I devoted myself chiefly to physics, mechanics and mathematical studies, spending the hours of leisure in the libraries.

I had a veritable mania for finishing whatever I began, which often got me into difficulties. On one occasion I started to read the works of Voltaire, when I learned, to my dismay that there were close to one hundred large volumes in small print which that monster had written while drinking seventy-two cups of black coffee per diem. It had to be done, but when I laid aside that last book I was very glad, and said, "Never more!"



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BEER**
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My first year's showing had won me the appreciation and friendship of several professors. Among these, Professor Rogner, who was teaching arithmetical subjects and geometry; Professor Poeschl, who held the chair of theoretical and experimental physics, and Dr. Alle, who taught integral calculus and specialized in differential equations. This scientist was the most brilliant lecturer to whom I ever

listened. He took a special interest in my progress and would frequently remain for an hour or two in the lecture room, giving me problems to solve, in which I delighted. To him I explained a flying machine I had conceived, not an illusory invention, but one based on sound, scientific principles, which has become realizable through my turbine and will soon be given to the world. Both Professors Rogner and Poeschl were curious men.



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The former had peculiar ways of expressing himself and whenever he did so, there was a riot, followed by a long embarrassing pause. Professor Poeschl was a methodical and thoroughly grounded German. He had enormous feet, and hands like the paws of a bear, but all of his experiments were skillfully performed with clock-like precision and without a miss. It was in the second year of my studies

that we received a Gramoe Dyname from Paris, having the horseshoe form of a laminated field magnet, and a wire wound armature with a commutator. It was connected up and various effects of the currents were shown. While Professor Poeschl was making demonstrations, running the machine was a motor, the brushes gave trouble, sparking badly, and I observed that it might be possible to operate a motor without these appliances. But he declared that it could not be done and did me the honor of delivering a lecture on the subject, at the conclusion he remarked, "Mr. Tesla may accomplish great things, but he certainly will never do this.

It would be equivalent to converting a steadily pulling force, like that of gravity into a rotary effort. It is a perpetual motion scheme, an impossible idea." But instinct is something which transcends knowledge. We have, undoubtedly, certain finer fibers that enable us to perceive truths when logical deduction, or any other wilful effort of the brain, is futile.

For a time I wavered, impressed by the professor's authority, but soon became convinced I was right and undertook the task with all

the fire and boundless confidence of my youth. I started by first picturing in my mind a direct-current machine, running it and following the changing flow of the currents in the armature. Then I would imagine an alternator and investigate the progresses taking place in a similar manner. Next I would visualize systems comprising motors and generators and operate them in various ways.

The images I saw were to me perfectly real and tangible. All my remaining term in Gratz was passed in intense but fruitless efforts of this kind, and I almost came to the conclusion that the problem was insolvable.



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In 1880 I went to Prague, Bohemia, carrying out my father's wish to complete my education at the University there. It was in that city that I made a decided advance, which consisted in detaching the

commutator from the machine and studying the phenomena in this new aspect, but still without result. In the year following there was a sudden change in my views of life.



**Famous 1937
New Orleans
DRINKS**
and how to
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I realized that my parents had been making too great sacrifices on my account and resolved to relieve them of the burden. The wave of the American telephone had just reached the European continent and the system was to be installed in Budapest, Hungary. It appeared an ideal opportunity, all the more as a friend of our family was at the head of the enterprise.

It was here that I suffered the complete breakdown of the nerves to which I have referred. What I experienced during the period of the illness surpasses all belief. My sight and hearing were always extraordinary. I could clearly discern

objects in the distance when others saw no trace of them. Several times in my boyhood I saved the houses of our neighbors from fire by hearing the faint crackling sounds which did not disturb their sleep, and calling for help. In 1899, when I was past forty and carrying on my experiments in Colorado, I could hear very distinctly thunderclaps at a distance of 550 miles.

My ear was thus over thirteen times more sensitive, yet at that time I was, so to speak, stone deaf in comparison with the acuteness of my hearing while under the nervous strain.

In Budapest I could hear the ticking of a watch with three rooms between me and the time-piece. A fly alighting on a table in the room would cause a dull thud in my ear. A carriage passing at a distance of a few miles fairly shook my whole body. The whistle of a locomotive twenty or thirty miles away made the bench or chair on which I sat, vibrate so strongly that the pain was unbearable. The ground under my feet trembled continuously.

I had to support my bed on rubber cushions to get any rest at all. The roaring noises from near and far

often produced the effect of spoken words which would have frightened me had I not been able to resolve them into their accumulated components. The sun rays, when periodically intercepted, would cause blows of such force on my brain that they would stun me. I had to summon all my will power to pass under a bridge or other structure, as I experienced the crushing pressure on the skull. In the dark I had the sense of a bat, and could detect the presence of an object at a distance of twelve feet by a peculiar creepy sensation on the forehead. My pulse varied from a few to two hundred and sixty beats and all the tissues of my body with twitching and tremors, which was perhaps hardest to bear.



**New Orleans
ENVIRONS
1727 - 1870
Architecture**

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A renowned physician who have me daily large doses of Bromide of Potassium, pronounced my malady unique and incurable.

It is my eternal regret that I was not under the observation of experts in physiology and psychology at that time. I clung desperately to life, but never expected to recover. Can anyone believe that so hopeless a physical wreck could ever be transformed into a man of astonishing strength and tenacity; able to work thirty-eight years almost without a day's interruption, and find himself still strong and fresh in body and mind?



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3D Comic
THREE
STOOGES**

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Such is my case. A powerful desire to live and to continue the work and the assistance of a devoted friend, an athlete, accomplished the wonder. My health returned and with it the vigor of mind.

In attacking the problem again, I almost regretted that the struggle was soon to end. I had so much energy to spare. When I understood the task, it was not with a resolve such as

men often make. With me it was a sacred vow, a question of life and death. I knew that I would perish if I failed. Now I felt that the battle was won. Back in the deep recesses of the brain was the solution, but I could not yet give it outward expression.

One afternoon, which is ever present in my recollection, I was enjoying a walk with my friend in the City Park and reciting poetry. At that age, I knew entire books by heart, word for word. One of these was Goethe's "Faust." The sun was just setting and reminded me of the glorious passage, "Sie ruckt und weicht, der Tag ist uberlebt, Dort eilt sie hin und fordert neues Leben. Oh, daß kein Flugel mich vom Boden hebt Ihr nach und immer nach zu streben! Ein sch fÖner Traum indessen sie entweicht, Ach, au des Geistes Fl fÜgein wird so leicht Kein körperlicher Flugel sich gesellen!" As I uttered these inspiring words the idea came like a flash of lightening and in an instant the truth was revealed. I drew with a stick on the sand, the diagram shown six years later in my address before the American Institute of Electrical Engineers, and my companion understood them perfectly. The images I saw

were wonderfully sharp and clear and had the solidity of metal and stone, so much so that I told him, "See my motor here; watch me reverse it." I cannot begin to describe my emotions. Pygmalion seeing his statue come to life could not have been more deeply moved. A thousand secrets of nature which I might have stumbled upon accidentally, I would have given for that one which I had wrested from her against all odds and at the peril of my existence...



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**SECRETS of
Ventriloquism
and VOCAL
ILLUSIONS**

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Chapter 4

For a while I gave myself up entirely to the intense enjoyment of picturing machines and devising new forms. It was a mental state of happiness about as complete as I have ever known in life. Ideas came in an uninterrupted stream and the only difficulty I had was to hold them fast.



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MAKING**
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The pieces of apparatus I conceived were to me absolutely real and tangible in every detail, even to the minutest marks and signs of wear. I delighted in imagining the motors constantly running, for in this way they presented to the mind's eye a fascinating sight. When natural inclination develops into a passionate desire, one advances towards his goal in seven-league boots. In less than two months I

evolved virtually all the types of motors and modifications of the system which are now identified with my name, and which are used under many other names all over the world. It was, perhaps, providential that the necessities of existence commanded a temporary halt to this consuming activity of the mind.

I came to Budapest prompted by a premature report concerning the telephone enterprise and, as irony of fate willed it, I had to accept a position as draftsman in the Central Telegraph Office of the Hungarian Government at a salary which I deem it my privilege not to disclose.

Fortunately, I soon won the interest of the Inspector-in-Chief and was thereafter employed on calculations, designs and estimates in connection with new installations, until the Telephone exchange started, when I took charge of the same. The knowledge and practical experience I gained in the course of this work, was most valuable and the employment gave me ample opportunities for the exercise of my inventive faculties. I made several improvements in the Central Station apparatus and perfected a telephone

repeater or amplifier which was never patented or publicly described but would be creditable to me even today. In recognition of my efficient assistance the organizer of the undertaking, Mr. Puskas, upon disposing of his business in Budapest, offered me a position in Paris which I gladly accepted.

I never can forget the deep impression that magic city produced on my mind. For several days after my arrival, I roamed through the streets in utter bewilderment of the new spectacle. The attractions were many and irresistible, but, alas, the income was spent as soon as received.



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Step by Step
Instructional
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When Mr. Puskas asked me how I was getting along in the new sphere, I described the situation accurately in the statement that "The last twenty-nine days of the month are the toughest." I led a rather strenuous life

in what would now be termed "Rooseveltian fashion." Every morning, regardless of the weather, I would go from the Boulevard St. Marcel, where I resided, to a bathing house on the Seine; plunge into the water, loop the circuit twenty-seven times and then walk an hour to reach Ivry, where the Company's factory was located. There I would have a wood-chopper's breakfast at half-past seven o'clock and then eagerly await the lunch hour, in the meanwhile cracking hard nuts for the Manager of the Works, Mr. Charles Batchellor, who was an intimate friend and assistant of Edison.



How to TEACH Yourself to SING

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Here I was thrown in contact with a few Americans who fairly fell in love with my because of my proficiency in Billiards! To these men I explained my invention and one of them, Mr. D. Cunningham, foreman of the Mechanical

Department, offered to form a stock company. The proposal seemed to me comical in the extreme. I did not have the faintest conception of what he meant, except that it was an American way of doing things. Nothing came of it, however, and during the next few months I had to travel from one place to another in France and Germany to cure the ills of the power plants.

On my return to Paris, I submitted to one of the administrators of the Company, Mr. Rau, a plan for improving their dynamos and was given an opportunity. My success was complete and the delighted directors accorded me the privilege of developing automatic regulators which were much desired. Shortly after, there was some trouble with the lighting plant which had been installed at the new railroad station in Strassburg, Alsace.

The wiring was defective and on the occasion of the opening ceremonies, a large part of a wall was blown out through a short-circuit, right in the presence of old Emperor William I. The German Government refused to take the plant and the French Company was facing a serious loss. On

account of my knowledge of the German language and past experience, I was entrusted with the difficult task of straightening out matters and early in 1883, I went to Straburg on that mission.



SQUARE DANCE CALLS eBook

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Some of the incidents in that city have left an indelible record on my memory. By a curious coincidence, a number of the men who subsequently achieve fame, lived there about that time. In later life I used to say, "There were bacteria of greatness in that old town." Others caught the disease, but I escaped!" The practical work, correspondence, and conferences with officials kept me preoccupied day and night, but as soon as I was able to manage, I undertook the construction of a simple motor in a mechanical shop opposite the rail-road station, having brought with me from Paris some material for that purpose. The

consummation of the experiment was, however, delayed until the summer of that year, when I finally had the satisfaction of seeing the rotation effected by alternating currents of different phase, and without sliding contacts or commutator, as I had conceived a year before. It was an exquisite pleasure but not to compare with the delirium of joy following the first revelation.



**How to Make
POTTERY &
CERAMIC
Sculpture**

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Among my new friends was the former Mayor of the city, Mr. Sauzin, whom I had already, in a measure, acquainted with this and other inventions of mine and whose support I endeavored to enlist. He was sincerely devoted to me and put my project before several wealthy persons, but to my mortification, found no response. He wanted to help me in every possible way and the approach of the first of July, 1917, happens to remind me of a form of

"assistance" I received from that charming man, which was not financial, but none the less appreciated.

In 1870, when the Germans invaded the country, Mr. Sauzin had buried a good sized allotment of St. Estephe of 1801 and he came to the conclusion that he knew no worthier person than myself, to consume that precious beverage. This, I may say, is one of the unforgettable incidents to which I have referred. My friend urged me to return to Paris as soon as possible and seek support there. This I was anxious to do, but my work and negotiations were protracted, owing to all sorts of petty obstacles I encountered, so that at times the situation seemed hopeless. Just to give an idea of German thoroughness and "efficiency," I may mention here a rather funny experience.

An incandescent lamp of 16 c.p. was to be placed in a hallway, and upon selected the proper location, I ordered the "monteur" to run the wires.

After working for a while, he concluded that the engineer had to be consulted and this was done. The latter made several objections but ultimately agreed that the

lamp should be placed two inches from the spot I had assigned, whereupon the work proceeded. Then the engineer became worried and told me that Inspector Averdeck should be notified. That important person was called, he investigated, debated, and decided that the lamp should be shifted back two inches, which was the place I had marked! It was not long, however, before Averdeck got cold feet himself and advised me that he had informed Ober-Inspector Hieronimus of the matter and that I should await his decision.



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CERAMICS**
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It was several days before the Ober-Inspector was able to free himself of other pressing duties, but at last he arrived and a two hour debate followed, when he decided to move the lamp two inches further. My hopes that this was the final act, were shattered when the Ober-Inspector

returned and said to me, "Regierungsrath Funke is particular that I would not dare to give an order for placing this lamp without his explicit approval." Accordingly, arrangements for a visit from that great man were made. We started cleaning up and polishing early in the morning, and when Funke came with his *retinue* he was ceremoniously received.

After two hours of deliberation, he suddenly exclaimed, "I must be going!," and pointing to a place on the ceiling, he ordered me to put the lamp there. It was the exact spot which I had originally chosen! So it went day after day with variations, but I was determined to achieve, at whatever cost, and in the end my efforts were rewarded.



BOY MECHANIC Things to Make

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By the spring of 1884, all the differences were adjusted, the plant formally accepted, and I returned to Paris with pleasing

anticipation. One of the administrators had promised me a liberal compensation in case I succeeded, as well as a fair consideration of the improvements I had made to their dynamos and I hoped to realize a substantial sum. There were three administrators, whom I shall designate as A, B, and C for convenience.

When I called on A, he told me that B had the say. This gentleman thought that only C could decide, and the latter was quite sure that A alone had the power to act. After several laps of this *circulus viciosus*, it dawned upon me that my reward was a castle in Spain.

The utter failure of my attempts to raise capital for development was another disappointment, and when Mr. Bachelor pressed me to go to America with a view of redesigning the Edison machines, I determined to try my fortunes in the Land of Golden Promise. But the chance was nearly missed. I liquefied my modest assets, secured accommodations and found myself at the railroad station as the train was pulling out. At that moment, I discovered that my money and tickets were gone. What to do was the question. Hercules had

plenty of time to deliberate, but I had to decide while running alongside the train with opposite feeling surging in my brain like condenser oscillations.

Resolve, helped by dexterity, won out in the nick of time and upon passing through the usual experience, as trivial and unpleasant, I managed to embark for New York with the remnants of my belongings, some poems and articles I had written, and a package of calculations relating to solutions of an unsolvable integral and my flying machine. During the voyage I sat most of the time at the stern of the ship watching for an opportunity to save somebody from a watery grave, without the slightest thought of danger. Later, when I had absorbed some of the practical American sense, I shivered at the recollection and marvelled at my former folly. The meeting with Edison was a memorable event in my life.



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I was amazed at this wonderful man who, without early advantages and scientific training, had accomplished so much. I had studied a dozen languages, delved in literature and art, and had spent my best years in libraries reading all sorts of stuff that fell into my hands, from Newton's "Principia" to the novels of Paul de Kock, and felt that most of my life had been squandered. But it did not take long before I recognized that it was the best thing I could have done. Within a few weeks I had won Edison's confidence, and it came about in this way.



HYPNOTISM
Science Study
& Training
UNCENSORED

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The S.S. Oregon, the fastest passenger steamer at that time, had both of its lighting machines disabled and its sailing was delayed. As the super-structure had been built after their installation, it was impossible to remove them from the hold. The

predicament was a serious one and Edison was much annoyed. In the evening I took the necessary instruments with me and went aboard the vessel where I stayed for the night.

The dynamos were in bad condition, having several short-circuits and breaks, but with the assistance of the crew, I succeeded in putting them in good shape.

At five o'clock in the morning, when passing along Fifth Avenue on my way to the shop, I met Edison with Bachelor and a few others, as they were returning home to retire. "Here is our Parisian running around at night," he said. When I told him that I was coming from the Oregon and had repaired both machines, he looked at me in silence and walked away without another word. But when he had gone some distance I heard him remark, "Bachelor, this is a good man." And from that time on I had full freedom in directing the work. For nearly a year my regular hours were from 10:30 A.M. until 5 o'clock the next morning without a day's exception.

Edison said to me, "I have had many hard working assistants, but you take the cake." During this period I

designed twenty-four different types of standard machines with short cores and uniform pattern, which replaced the old ones. The Manager had promised me fifty thousand dollars on the completion of this task, but it turned out to be a practical joke. This gave me a painful shock and I resigned my position.

Immediately thereafter, some people approached me with the proposal of forming an arc light company under my name, to which agreed.



**How to
READ
PALMS**
*be the hit at parties
and amaze friends*

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Here finally, was an opportunity to develop the motor, but when I broached the subject to my new associates they said, "No, we want the arc lamp. We don't care for this alternating current of yours." In 1886 my system of arc lighting was perfected and adopted for factory and municipal

lighting, and I was free, but with no other possession than a beautifully engraved certificate of stock of hypothetical value. Then followed a period of struggle in the new medium for which I was not fitted, but the reward came in the end, and in April, 1887, the TESLA Electric Co. was organized, providing a laboratory and facilities. The motors I built there were exactly as I had imagined them. I made no attempt to improve the design, but merely reproduced the pictures as they appeared to my vision and the operation was always as I expected.



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MAKE
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1908 eBook

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In the early part of 1888, an arrangement was made with the Westinghouse Company for the manufacture of the motors on a large scale. But great difficulties had still to be overcome. My system was based on the use of low frequency currents and the Westinghouse experts had

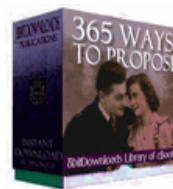
adopted 133 cycles with the objects of securing advantages in transformation. They did not want to depart with their standard forms of apparatus and my efforts had to be concentrated upon adapting the motor to these conditions. Another necessity was to produce a motor capable of running efficiently at this frequency on two wire, which was not an easy accomplishment.

At the close of 1889, however, my services in Pittsburgh being no longer essential, I returned to New York and resumed experimental work in a Laboratory on Grand Street, where I began immediately the design of high-frequency machines.

The problems of construction in this unexplored field were novel and quite peculiar, and I encountered many difficulties. I rejected the inductor type, fearing that it might not yield perfect sine waves, which were so important to resonant action. Had it not been for this, I could have saved myself a great deal of labor. Another discouraging feature of the high-frequency alternator seemed to be the inconstancy of speed which threatened to impose serious

limitations to its use. I had already noted in my demonstrations before the American Institution of Electrical Engineers, that several times the tune was lost, necessitating readjustment, and did not yet foresee what I discovered long afterwards, - a means of operating a machine of this kind at a speed constant to such a degree as not to vary more than a small fraction of one revolution between the extremes of load.

From many other considerations, it appeared desirable to invent a simpler device for the production of electric oscillations.



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TO PROPOSE**
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In 1856, Lord Kelvin had exposed the theory of the condenser discharge, but no practical application of that important knowledge was made. I saw the possibilities and undertook the development of induction apparatus on this

principle. My progress was so rapid as to enable me to exhibit at my lecture in 1891, a coil giving sparks of five inches. On that occasion I frankly told the engineers of a defect involved in the transformation by the new method, namely, the loss in the spark gap.



**How to Raise
& Train
CHIHUAHUA
for fun and
income**

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Subsequent investigation showed that no matter what medium is employed, be it air, hydrogen, mercury vapor, oil, or a stream of electrons, the efficiency is the same. It is a law very much like the governing of the conversion of mechanical energy. We may drop a weight from a certain height vertically down, or carry it to the lower level along any devious path; it is immaterial insofar as the amount of work is concerned. Fortunately however, this drawback is not fatal, as by proper proportioning of the

resonant, circuits of an efficiency of 85 percent is attainable. Since my early announcement of the invention, it has come into universal use and wrought a revolution in many departments, but a still greater future awaits it. When in 1900 I obtained powerful discharges of 1,000 feet and flashed a current around the globe, I was reminded of the first tiny spark I observed in my Grand Street laboratory and was thrilled by sensations akin to those I felt when I discovered the rotating magnetic field.

Chapter 5

As I review the events of my past life I realize how subtle are the influences that shape our destinies. An incident of my youth may serve to illustrate. One winter's day I managed to climb a steep mountain, in company with other boys.

The snow was quite deep and a warm southerly wind made it just suitable for our purpose. We amused ourselves by throwing balls which would roll down a certain distance, gathering

more or less snow, and we tried to out-do one another in this sport. Suddenly a ball was seen to go beyond the limit, swelling to enormous proportions until it became as big as a house and plunged thundering into the valley below with a force that made the ground tremble. I looked on spell-bound incapable of understanding what had happened. For weeks afterward the picture of the avalanche was before my eyes and I wondered how anything so small could grow to such an immense size.

Ever since that time the magnification of feeble actions fascinated me, and when, years later, I took up the experimental study of mechanical and electrical resonance, I was keenly interested from the very start.



**How to Treat
Common
Ailments of
Farm
Animals**

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Possibly, had it not been for that early powerful

impression I might not have followed up the little spark I obtained with my coil and never developed my best invention, the true history of which I will tell.

Many technical men, very able in their special departments, but dominated by a pedantic spirit and near-sighted, have asserted that excepting the induction motor, I have given the world little of practical use.



**USEFUL
KNOTS
and how to
tie them**

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This is a grievous mistake. A new idea must not be judged by its immediate results. My alternating system of power transmission came at a psychological moment, as a long sought answer to pressing industrial questions, and although considerable resistance had to be overcome and opposing interests reconciled, as usual, the commercial introduction could not be long delayed.

Now, compare this situation

with that confronting my turbines, for example. One should think that so simple and beautiful an invention, possessing many features of an ideal motor, should be adopted at once and, undoubtedly, it would under similar conditions. But the prospective effect of the rotating field was not to render worthless existing machinery; on the contrary, it was to give it additional value. The system lent itself to new enterprise as well as to improvement of the old.

My turbine is an advance of a character entirely different. It is a radical departure in the sense that its success would mean the abandonment of the antiquated types of prime movers on which billions of dollars have been spent.

Under such circumstances, the progress must needs be slow and perhaps the greatest impediment is encountered in the prejudicial opinions created in the minds of experts by organized opposition.

Only the other day, I had a disheartening experience when I met my friend and former assistant, Charles F. Scott, now professor of Electric Engineering at Yale. I had not seen him for a long time and was glad to have an opportunity for a

little chat at my office. Our conversation, naturally enough, drifted on my turbine and I became heated to a high degree.

"Scott," I exclaimed, carried away by the vision of a glorious future, "My turbine will scrap all the heat engines in the world." Scott stroked his chin and looked away thoughtfully, as though making a mental calculation. "That will make quite a pile of scrap," he said, and left without another word!



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FLIES
Guide for the
Creative
Fisherman**

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These and other inventions of mine, however, were nothing more than steps forward in a certain directions. In evolving them, I simply followed the inborn instinct to improve the present devices without any special thought of our far more imperative necessities. The "Magnifying Transmitter" was the product of labors

extending through years, having for their chief object, the solution of problems which are infinitely more important to mankind than mere industrial development.

If my memory serves me right, it was in November, 1890, that I performed a laboratory experiment which was one of the most extraordinary and spectacular ever recorded in the annual of Science. In investigating the behavior of high frequency currents, I had satisfied myself that an electric field of sufficient intensity could be produced in a room to light up electrodeless vacuum tubes. Accordingly, a transformer was built to test the theory and the first trial proved a marvelous success. It is difficult to appreciate what those strange phenomena meant at the time. We crave for new sensations, but soon become indifferent to them.



**CHEVROLET
Motors
Manual
1949-57**

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The wonders of yesterday are today common occurrences. When my tubes were first publicly exhibited, they were viewed with amazement impossible to describe. From all parts of the world, I received urgent invitations and numerous honors and other flattering inducements were offered to me, which I declined. But in 1892 the demand became irresistible and I went to London where I delivered a lecture before the institution of Electrical Engineers.

It has been my intention to leave immediately for Paris in compliance with a similar obligation, but Sir James Dewar insisted on my appearing before the Royal Institution. I was a man of firm resolve, but succumbed easily to the forceful arguments of the great Scotchman. He pushed me into a chair and poured out half a glass of a wonderful brown fluid which sparkled in all sorts of virescent colours and tasted like nectar.

"Now," said he, "you are sitting in Faraday's chair and you are enjoying whiskey he used to drink." (Which did not interest me very much, as I had altered my opinion concerning strong drink). The next evening I have a demonstration before the

Royal Institution, at the termination of which, Lord Rayleigh addressed the audience and his generous words gave me the first start in these endeavors. I fled from London and later from Paris, to escape favors showered upon me, and journeyed to my home, where I passed through a most painful ordeal and illness.

Upon regaining my health, I began to formulate plans for the resumption of work in America. Up to that time I never realized that possessed any particular gift of discovery, but Lord Rayleigh, whom I always considered as an ideal man of science, had said so and if that was the case, I felt that I should concentrate on some big idea.



**FORD
Motors
Manual
1949-57**

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At this time, as at many other times in the past, my thoughts turned towards my Mother's teaching. The gift of mental power comes from God, Divine Being,

and if we concentrate our minds on that truth, we become in tune with this great power. My Mother had taught me to seek all truth in the Bible; therefore I devoted the next few months to the study of this work.

One day, as I was roaming the mountains, I sought shelter from an approaching storm. The sky became overhung with heavy clouds, but somehow the rain was delayed until, all of a sudden, there was a lightening flash and a few moments after, a deluge. This observation set me thinking.



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It was manifest that the two phenomena were closely related, as cause and effect, and a little reflection led me to the conclusion that the electrical energy involved in the precipitation of the water was inconsiderable, the function of the lightening being much like that of a

sensitive trigger. Here was a stupendous possibility of achievement. If we could produce electric effects of the required quality, this whole planet and the conditions of existence on it could be transformed. The sun raises the water of the oceans and winds drive it to distant regions where it remains in a state of most delicate balance. If it were in our power to upset it when and wherever desired, this might life sustaining stream could be at will controlled. We could irrigate arid deserts, create lakes and rivers, and provide motive power in unlimited amounts. This would be the most efficient way of harnessing the sun to the uses of man. The consummation depended on our ability to develop electric forces of the order of those in nature.

It seemed a hopeless undertaking, but I made up my mind to try it and immediately on my return to the United States in the summer of 1892, after a short visit to my friends in Watford, England; work was begun which was to me all the more attractive, because a means of the same kind was necessary for the successful transmission of energy without wires.

At this time I made a further

careful study of the Bible, and discovered the key in Revelation. The first gratifying result was obtained in the spring of the succeeding year, when I reaching a tension of about 100,000,000 volts -- one hundred million volts -- with my conical coil, which I figured was the voltage of a flash of lightening. Steady progress was made until the destruction of my laboratory by fire, in 1895, as may be judged from an article by T.C. Martin which appeared in the April number of the Century Magazine. This calamity set me back in many ways and most of that year had to be devoted to planning and reconstruction. However, as soon as circumstances permitted, I returned to the task.



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Although I knew that higher electric-motive forces were attainable with apparatus of larger dimensions, I had an instinctive perception that the object could be

diameter is sufficient to develop an electromotive force of that magnitude, while for antenna currents of from 2,000-4,000 amperes at the usual frequencies, it need not be larger than 30 feet in diameter. In a more restricted meaning, this wireless transmitter is one in which the Hertzwave radiation is an entirely negligible quantity as compared with the whole energy, under which condition the damping factor is extremely small and an enormous charge is stored in the elevated capacity. Such a circuit may then be excited with impulses of any kind, even of low frequency and it will yield sinusoidal and continuous oscillations like those of an alternator.



Homemade Electric Train Set Building

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Taken in the narrowest significance of the term, however, it is a resonant transformer which, besides possessing these qualities, is accurately proportioned

to fit the globe and its electrical constants and properties, by virtue of which design it becomes highly efficient and effective in the wireless transmission of energy. Distance is then

**A B S O L U T E L Y
ELIMINATED, THERE
BEING NO DIMINUTION
IN THE INTENSITY OF
THE TRANSMITTED
IMPULSES.**

It is even possible to make the actions increase with the distance from the plane, according to an exact mathematical law. This invention was one of a number comprised in my "World System" of wireless transmission which I undertook to commercialize on my return to New York in 1900.

As to the immediate purposes of my enterprise, they were clearly outlined in a technical statement of that period from which I quote, "The world system has resulted from a combination of several original discoveries made by the inventor in the course of long continued research and experimentation. It makes possible not only the instantaneous and precise wireless transmission of any kind of signals, messages or

characters, to all parts of the world, but also the inter-connection of the existing telegraph, telephone, and other signal stations without any change in their present equipment.

By its means, for instance, a telephone subscriber here may call up and talk to any other subscriber on the Earth.

An inexpensive receiver, not bigger than a watch, will enable him to listen anywhere, on land or sea, to a speech delivered or music played in some other place, however distant."



How to Build and Fly MODEL AIRPLANES

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These examples are cited merely to give an idea of the possibilities of this great scientific advance, which annihilates distance and makes that perfect natural conductor, the Earth, available for all the innumerable purposes which human ingenuity has found for a line-wire. One far-reaching result of this is

that any device capable of being operated through one or more wires (at a distance obviously restricted) can likewise be actuated, without artificial conductors and with the same facility and accuracy, at distances to which there are no limits other than those imposed by the physical dimensions of the earth. Thus, not only will entirely new fields for commercial exploitation be opened up by this ideal method of transmission, but the old ones vastly extended.



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The World System is based on the application of the following import and inventions and discoveries:

1) *The Tesla Transformer:* This apparatus is in the production of electrical vibrations as revolutionary as gunpowder was in warfare. Currents many times stronger than any ever generated in the usual

ways and sparks over one hundred feet long, have been produced by the inventor with an instrument of this kind.

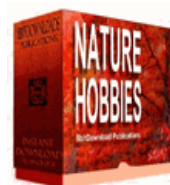
2) *The Magnifying Transmitter:* This is Tesla's best invention, a peculiar transformer specially adapted to excite the earth, which is in the transmission of electrical energy when the telescope is in astronomical observation. By the use of this marvelous device, he has already set up electrical movements of greater intensity than those of lightening and passed a current, sufficient to light more than two hundred incandescent lamps, around the Earth.

3) *The Tesla Wireless System:* This system comprises a number of improvements and is the only means known for transmitting economically electrical energy to a distance without wires. Careful tests and measurements in connection with an experimental station of great activity, erected by the inventor in Colorado, have demonstrated that power in any desired amount can be conveyed, clear across the Globe if necessary, with a loss not exceeding a few per cent.

4) *The Art of*

Individualization: This invention of Tesla is to primitive Tuning, what refined language is to unarticulated expression. It makes possible the transmission of signals or messages absolutely secret and exclusive both in the active and passive aspect, that is, non-interfering as well as non-interferable. Each signal is like an individual of unmistakable identity and there is virtually no limit to the number of stations or instruments which can be simultaneously operated without the slightest mutual disturbance.

5) *The Terrestrial Stationary Waves:* This wonderful discovery, popularly explained, means that the Earth is responsive to electrical vibrations of definite pitch, just as a tuning fork to certain waves of sound.



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These particular electrical vibrations, capable of

powerfully exciting the Globe, lend themselves to innumerable uses of great importance commercially and in many other respects.

The "first World System" power plant can be put in operation in nine months. With this power plant, it will be practicable to attain electrical activities up to ten million horse-power and it is designed to serve for as many technical achievements as are possible without due expense. Among these are the following:

1) The inter-connection of existing telegraph exchanges or offices all over the world;

2) The establishment of a secret and non-interferable government telegraph service;

3) The inter-connection of all present telephone exchanges or offices around the Globe;

4) The universal distribution of general news by telegraph or telephone, in conjunction with the Press;

5) The establishment of such a "World System" of intelligence transmission for exclusive private use;

6) The inter-connection and operation of all stock tickers of the world;

7) The establishment of a World system -- of musical distribution, etc.;

8) The universal registration of time by cheap clocks indicating the hour with astronomical precision and requiring no attention. whatever;

9) The world transmission of typed or hand-written characters, letters, checks, etc.;

10) The establishment of a universal marine service enabling the navigators of all ships to steer perfectly without compass, to determine the exact location, hour and speak; to prevent collisions and disasters, etc.;

11) The inauguration of a system of world printing on land and sea;

12) The world reproduction of photographic pictures and all kinds of drawings or records..."



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I also proposed to make demonstration in the wireless transmission of power on a small scale, but sufficient to carry conviction. Besides these, I referred to other and incomparably more important applications of my discoveries which will be disclosed at some future date. A plant was built on Long Island with a tower 187 feet high, having a spherical terminal about 68 feet in diameter. These dimensions were adequate for the transmission of virtually any amount of energy. Originally, only from 200 to 300 K.W. were provided, but I intended to employ later several thousand horsepower. The transmitter was to emit a wave-complex of special characteristics and I had devised a unique method of telephonic control of any amount of energy. The tower was destroyed two years ago (1917) but my projects are being

developed and another one, improved in some features will be constructed.

On this occasion I would contradict the widely circulated report that the structure was demolished by the Government, which owing to war conditions, might have created prejudice in the minds of those who may not know that the papers, which thirty years ago conferred upon me the honor of American citizenship, are always kept in a safe, while my orders, diplomas, degrees, gold medals and other distinctions are packed away in old trunks. If this report had a foundation, I would have been refunded a large sum of money which I expended in the construction of the tower.



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On the contrary, it was in the interest of the Government to preserve it, particularly as it would have made possible, to

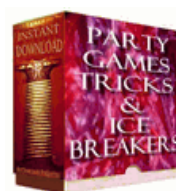
mention just one valuable result, the location of a submarine in any part of the world. My plant, services, and all my improvements have always been at the disposal of the officials and ever since the outbreak of the European conflict, I have been working at a sacrifice on several inventions of mine relating to aerial navigation, ship propulsion and wireless transmission, which are of the greatest importance to the country.

Those who are well informed know that my ideas have revolutionized the industries of the United States and I am not aware that there lives an inventor who has been, in this respect, as fortunate as myself, -- especially as regards the use of his improvements in the war.

I have refrained from publicly expressing myself on this subject before, as it seemed improper to dwell on personal matters while all the world was in dire trouble. I would add further, in view of various rumors which have reached me, that Mr. J. Pierpont Morgan did not interest himself with me in a business way, but in the same large spirit in which he has assisted many other pioneers. He carried out his generous promise to the

letter and it would have been most unreasonable to expect from him anything more. He had the highest regard for my attainments and gave me every evidence of his complete faith in my ability to ultimately achieve what I had set out to do. I am unwilling to accord to some small-minded and jealous individuals the satisfaction of having thwarted my efforts. These men are to me nothing more than microbes of a nasty disease. My project was retarded by laws of nature.

The world was not prepared for it. It was too far ahead of time, but the same laws will prevail in the end and make it a triumphal success.



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Chapter 6.

No subject to which I have ever devoted myself has called for such concentration of mind, and strained to so dangerous a degree the finest fibers of my brain, as the systems of which the Magnifying transmitter is the foundation. I put all the intensity and vigor of youth in the development of the rotating field discoveries, but those early labors were of a different character. Although strenuous in the extreme, they did not involve that keen and exhausting discernment which had to be exercised in attacking the many problems of the wireless.



**25 Lessons in
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Despite my rare physical endurance at that period, the abused nerves finally rebelled and I suffered a complete collapse, just as the consummation of the

long and difficult task was almost in sight. Without doubt I would have paid a greater penalty later, and very likely my career would have been prematurely terminated, had not providence equipped me with a safety device, which seemed to improve with advancing years and unfailingly comes to play when my forces are at an end. So long as it operates I am safe from danger, due to overwork, which threatens other inventors, and incidentally, I need no vacations which are indispensable to most people. When I am all but used up, I simply do as the darkies who "naturally fall asleep while white folks worry."

To venture a theory out of my sphere, the body probably accumulates little by little a definite quantity of some toxic agent and I sink into a nearly lethargic state which lasts half an hour to the minute. Upon awakening I have the sensation as though the events immediately preceding had occurred very long ago, and if I attempt to continue the interrupted train of thought I feel veritable nausea. Involuntarily, I then turn to other and am surprised at the freshness of the mind and ease with which I overcome obstacles that had

baffled me before. After weeks or months, my passion for the temporarily abandoned invention returns and I invariably find answers to all the vexing questions, with scarcely any effort. In this connection, I will tell of an extraordinary experience which may be of interest to students of psychology.

I had produced a striking phenomenon with my grounded transmitter and was endeavoring to ascertain its true significance in relation to the currents propagated through the earth. It seemed a hopeless undertaking, and for more than a year I worked unremittingly, but in vain.



**The
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This profound study so entirely absorbed me, that I became forgetful of everything else, even of my undermined health. At last, as I was at the point of breaking down, nature applied the preservative

developing cheap and unlimited power at any point on the globe, this accomplishment, instead of being a blessing, might bring disaster to mankind in giving rise to dissension and anarchy, which would ultimately result in the enthronement of the hated regime of force. The greatest good will come from technical improvements tending to unification and harmony, and my wireless transmitter is preeminently such. By its means, the human voice and likeness will be reproduced everywhere and factories driven thousands of miles from waterfalls furnishing power.

Nikola Tesla



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Aerial machines will be propelled around the earth without a stop and the sun's energy controlled to create lakes and rivers for motive purposes and transformation of arid deserts into fertile land. Its

introduction for telegraphic, telephonic and similar uses, will automatically cut out the statics and all other interferences which at present, impose narrow limits to the application of the wireless. This is a timely topic on which a few words might not be amiss.

During the past decade a number of people have arrogantly claimed that they had succeeded in doing away with this impediment.

I have carefully examined all of the arrangements described and tested most of them long before they were publicly disclosed, but the finding was uniformly negative. Recent official statement from the U.S. Navy may, perhaps, have taught some beguileable news editors how to appraise these announcements at their real worth. As a rule, the attempts are based on theories so fallacious, that whenever they come to my notice, I can not help thinking in a light vein. Quite recently a new discovery was heralded, with a deafening flourish of trumpets, but it proved another case of a mountain bringing forth a mouse.

This reminds me of an exciting incident which took place a year ago, when I was conducting my experiments

with currents of high frequency.

Steve Brodie had just jumped off the Brooklyn Bridge. The feat has been vulgarized since by imitators, but the first report electrified New York.

I was very impressionable then and frequently spoke of the daring printer.

Sigmund Freud's Interpretation of Dreams



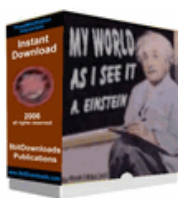
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On a hot afternoon I felt the necessity of refreshing myself and stepped into one of the popular thirty thousand institutions of this great city, where a delicious twelve per cent beverage was served, which can now be had only by making a trip to the poor and devastated countries of Europe. The attendance was large and not over-distinguished and a matter was discussed which gave me an admirable opening for the careless remark, "This is what I said when I jumped off the bridge." No

sooner had I uttered these words, than I felt like the companion of Timothens, in the poem of Schiller. In an instant there was pandemonium and a dozen voices cried, "It is Brodie!"

I threw a quarter on the counter and bolted for the door, but the crowd was at my heels with yells, - "Stop, Steeve!", which must have been misunderstood, for many persons tried to hold me up as I ran frantically for my haven of refuge. By darting around corners I fortunately managed, through the medium of a fire escape, to reach the laboratory, where I threw off my coat, camouflaged myself as a hard-working blacksmith and started the forge. But these precautions proved unnecessary, as I had eluded my pursuers. For many years afterward, at night, when imagination turns into specters the trifling troubles of the day, I often thought, as I tossed on the bed, what my fate would have been, had the mob caught me and found out that I was not Steve Brodie!



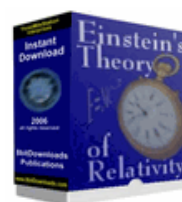
My World as I see it ALBERT EINSTEIN

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Now the engineer who lately gave an account before a technical body of a novel remedy against statics based on a "heretofore unknown law of nature," seems to have been as reckless as myself when he contended that these disturbances propagate up and down, while those of a transmitter proceed along the earth. It would mean that a condenser as this globe, with its gaseous envelope, could be charged and discharged in a manner quite contrary to the fundamental teachings propounded in every elemental text book of physics. Such a supposition would have been condemned as erroneous, even in Franklin's time, for the facts bearing on this were then well known and the identity between atmospheric electricity and that developed by machines was fully established. Obviously, natural and artificial disturbances propagate through the earth and the air in exactly the same way, and both set up electromotive forces in the horizontal, as

well as vertical sense. Interference can not be overcome by any such methods as were proposed. The truth is this: In the air the potential increases at the rate of about fifty volts per foot of elevation, owing to which there may be a difference of pressure amounting to twenty, or even forty thousand volts between the upper and lower ends of the antenna. The masses of the charged atmosphere are constantly in motion and give up electricity to the conductor, not continuously, but rather disruptively, this producing a grinding noise in a sensitive telephonic receiver. The higher the terminal and the greater the space encompassed by the wires, the more pronounced is the effect, but it must be understood that it is purely local and has little to do with the real trouble.



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In 1900, while perfecting my wireless system, one form of apparatus compressed four antennae. These were carefully calibrated in the same frequency and connected in multiple with the object of magnifying the action in receiving from any direction. When I desired to ascertain the origin of the transmitted impulse, each diagonally situated pair was put in series with a primary coil energizing the detector circuit. In the former case, the sound was loud in the telephone; in the latter it ceased, as expected, -the two antennae neutralizing each other, but the true statics manifested themselves in both instances and I had to devise special preventives embodying different principles. By employing receivers connected to two points of the ground, as suggested by me long ago, this trouble caused by the charged air, which is very serious in the structures as now built, is nullified and besides, the liability of all kinds of interference is reduced to about one-half because of the directional character of the circuit.

This was perfectly self-evident, but came as a revelation to some simple-minded wireless folks whose experience was confined to

forms of apparatus that could have been improved with an axe, and they have been disposing of the bear's skin before killing him. If it were true that strays performed such antics, it would be easy to get rid of them by receiving without aerials. But, as a matter of fact, a wire buried in the ground which, conforming to this view, should be absolutely immune, is more susceptible to certain extraneous impulses than one placed vertically in the air. To state it fairly, a slight progress has been made, but not by virtue of any particular method or device. It was achieved simply by discerning the enormous structures, which are bad enough for transmission but wholly unsuitable for reception and adopting a more appropriate type of receiver.

As I have said before, to dispose of this difficulty for good, a radical change must be made in the system and the sooner this is done the better.

It would be calamitous, indeed, if at this time when the art is in its infancy and the vast majority, not excepting even experts, have no conception of its ultimate possibilities, a measure would be rushed through the legislature making it a

government monopoly. This was proposed a few weeks ago by Secretary Daniels and no doubt that distinguished official has made his appeal to the Senate and House of Representatives with sincere

conviction. But universal evidence unmistakably shows that the best results are always obtained in healthful commercial competition. there are, however, exceptional reasons why wireless should be given the fullest freedom of development. In the first place, it offers prospects immeasurably greater and more vital to betterment of human life than any other invention or discovery in the history of man. Then again, it must be understood that this wonderful art has been, in its entirety, evolved here and can be called "American" with more right and propriety than the telephone, the incandescent lamp or the aeroplane.



***The
Everyday
Life of
ABRAHAM
LINCOLN***

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*Enterprising press agents and stock jobbers have been so successful in spreading misinformation, that even so excellent a periodical as the *Scientific American*, accords the chief credit to a foreign country.*



***Memoirs of
Ulysses S.
Grant
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The Germans, of course, gave us the Hertz waves and the Russian, English, French and Italian experts were quick in using them for signaling purposes. It was an obvious application of the new agent and accomplished with the old classical and unimproved induction coil, scarcely anything more than another kind of heliograph. The radius of transmission was very limited, the result attained of little value, and the Hertz oscillations, as a means for conveying intelligence, could have been advantageously replaced by sound waves, which I advocated in 1891.

Moreover, all of these

attempts were made three years after the basic principles of the wireless system, which is universally employed today, and its potent instrumentalities had been clearly described and developed in America.

No trace of those Hertzian appliances and methods remains today.

We have proceeded in the very opposite direction and what has been done is the product of the brains and efforts of citizens of this country. The fundamental patents have expired and the opportunities are open to all. The chief argument of the Secretary is based on interference. According to his statement, reported in the New York Herald of July 29th, signals from a powerful station can be intercepted in every village in the world. In view of this fact, which was demonstrated in my experiments in 1900, it would be of little use to impose restrictions in the United States.

As throwing light on this point, I may mention that only recently an odd looking gentleman called on me with the object of enlisting my services in the construction of world transmitters in some distant land. "We have no money," he said, "but

carloads of solid gold, and we will give you a liberal amount." I told him that I wanted to see first what will be done with my inventions in America, and this ended the interview. But I am satisfied that some dark forces are at work, and as time goes on the maintenance of continuous communication will be rendered more difficult. The only remedy is a system immune against interruption. It has been perfected, it exists, and all that is necessary is to put it in operation.



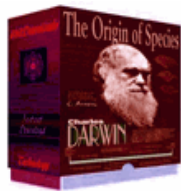
***Life of
General
Robert E. Lee
of the
Confederacy***

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The terrible conflict is still uppermost in the minds and perhaps the greatest importance will be attached to the magnifying Transmitter as a machine for attack and defense, more particularly in connection with TELAUTAMATICS. This invention is a logical outcome of observations begun in my boyhood and

continued throughout my life. When the first results were published, the Electrical Review stated editorially that it would become one of the "most potent factors in the advance of civilization of mankind." The time is not distant when this prediction will be fulfilled. In 1898 and 1900, it was offered by me to the Government and might have been adopted, were I one of those who would go to Alexander's shepherd when they want a favour from Alexander!



**CHARLES
DARWIN
Origins of
Species**

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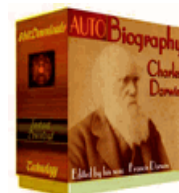
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At that time I really thought that it would abolish war, because of its unlimited destructiveness and exclusion of the personal element of combat. But while I have not lost faith in its potentialities, my views have changed since. War can not be avoided until the physical cause for its recurrence is removed and this, in the last analysis, is the vast extent of the planet on which we live. Only

though annihilation of distance in every respect, as the conveyance of intelligence, transport of passengers and supplies and transmission of energy will conditions be brought about some day, insuring permanency of friendly relations. What we now want most is closer contact and better understanding between individuals and communities all over the earth and the elimination of that fanatic devotion to exalted ideals of national egoism and pride, which is always prone to plunge the world into primeval barbarism and strife. No league or parliamentary act of any kind will ever prevent such a calamity. These are only new devices for putting the weak at the mercy of the strong.

I have expressed myself in this regard fourteen years ago, when a combination of a few leading governments, a sort of Holy alliance, was advocated by the late Andrew Carnegie, who may be fairly considered as the father of this idea, having given to it more publicity and impetus than anybody else prior to the efforts of the President. While it can not be denied that such aspects might be of material advantage to some less fortunate peoples, it can not attain the chief objective

sought. Peace can only come as a natural consequence of universal enlightenment and merging of races, and we are still far from this blissful realization, because few indeed, will admit the reality - that God made man in His image - in which case all earth men are alike. There is in fact but one race, of many colours. Christ is but one person, yet he is of all people, so why do some people think themselves better than some other people?



**AUTO
Biography
CHARLES
DARWIN**

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As I view the world of today, in the light of the gigantic struggle we have witnessed, I am filled with conviction that the interests of humanity would be best served if the United States remained true to its traditions, true to God whom it pretends to believe, and kept out of "entangling alliances." Situated as it is, geographically remote from the theaters of impending

conflicts, without incentive to territorial aggrandizement, with inexhaustible resources and immense population thoroughly imbued with the spirit of liberty and right, this country is placed in a unique and privileged position. It is thus able to exert, independently, its colossal strength and moral force to the benefit of all, more judiciously and effectively, than as a member of a league.



RASPUTIN
the
Holy Devil
1927 English
Translation

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I have dwelt on the circumstances of my early life and told of an affliction which compelled me to unrelenting exercise of imagination and self-observation. This mental activity, at first involuntary under the pressure of illness and suffering, gradually became second nature and led me finally to recognize that I was but an automaton devoid of free will in thought and action and merely responsible to

the forces of the environment.

Our bodies are of such complexity of structure, the motions we perform are so numerous and involved and the external impressions on our sense organs to such a degree delicate and elusive, that it is hard for the average person to grasp this fact. Yet nothing is more convincing to the trained investigator than the mechanistic theory of life which had been, in a measure, understood and propounded by Descartes three hundred years ago. In his time many important functions of our organisms were unknown and especially with respect to the nature of light and the construction and operation of the eye, philosophers were in the dark.

In recent years the progress of scientific research in these fields has been such as to leave no room for a doubt in regard to this view on which many works have been published. One of its ablest and most eloquent exponents is, perhaps, Felix le Dantec, formerly assistant of Pasteur. Professor Jacques Loeb has performed remarkable experiments in heliotropism, clearly establishing the controlling power of light in lower forms of organisms and his latest

book, "Forced Movements," is revelatory.

But while men of science accept this theory simply as any other that is recognized, to me it is a truth which I hourly demonstrate by every act and thought of mine. The consciousness of the external impression prompting me to any kind of exertion, - physical or mental, is ever present in my mind.



Quotations
Chairman
Mao Tse-Tung

English Version

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Only on very rare occasions, when I was in a state of exceptional concentration, have I found difficulty in locating the original impulse. The by far greater number of human beings are never aware of what is passing around and within them and millions fall victims of disease and die prematurely just on this account. The commonest, every-day occurrences appear to them mysterious and inexplicable. One may feel a sudden wave of

sadness and rack his brain for an explanation, when he might have noticed that it was caused by a cloud cutting off the rays of the sun. He may see the image of a friend dear to him under conditions which he construes as very peculiar, when only shortly before he has passed him in the street or seen his photograph somewhere. When he loses a collar button, he fusses and swears for an hour, being unable to visualize his previous actions and locate the object directly. Deficient observation is merely a form of ignorance and responsible for the many morbid notions and foolish ideas prevailing. There is not more than one out of every ten persons who does not believe in telepathy and other psychic manifestations, spiritualism and communion with the dead, and who would refuse to listen to willing or unwilling deceivers?



**Autobiography
of Benjamin
Franklin
1706-1757**

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Just to illustrate how deeply

rooted this tendency has become even among the clear-headed American population, I may mention a comical incident. Shortly before the war, when the exhibition of my turbines in this city elicited widespread comment in the technical papers, I anticipated that there would be a scramble among manufacturers to get hold of the invention and I had particular designs on that man from Detroit who has an uncanny faculty for accumulating millions. So confident was I, that he would turn up some day, that I declared this as certain to my secretary and assistants. Sure enough, one fine morning a body of engineers from the Ford Motor Company presented themselves with the request of discussing with me an important project. "Didn't I tell you?," I remarked triumphantly to my employees, and one of them said, "You are amazing, Mr. Tesla.

Everything comes out exactly as you predict." As soon as these hard-headed men were seated, I of course, immediately began to extol the wonderful features of my turbine, when the spokesman interrupted me and said, "We know all about this, but we are on a special errand. We have formed a psychological society for the

investigation of psychic phenomena and we want you to join us in this undertaking." I suppose these engineers never knew how near they came to being fired out of my office.



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Poe
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Ever since I was told by some of the greatest men of the time, leaders in science whose names are immortal, that I am possessed of an unusual mind, I bent all my thinking faculties on the solution of great problems regardless of sacrifice. For many years I endeavored to solve the enigma of death, and watched eagerly for every kind of spiritual indication. But only once in the course of my existence have I had an experience which momentarily impressed me as supernatural. It was at the time of my mother's death. I had become completely exhausted by pain and long vigilance, and one night was carried to a building about two blocks from our

home. As I lay helpless there, I thought that if my mother died while I was away from her bedside, she would surely give me a sign. Two or three months before, I was in London in company with my late friend, Sir William Crookes, when spiritualism was discussed and I was under the full sway of these thoughts.

I might not have paid attention to other men, but was susceptible to his arguments as it was his epochal work on radiant matter, which I had read as a student, that made me embrace the electrical career. I reflected that the conditions for a look into the beyond were most favorable, for my mother was a woman of genius and particularly excelling in the powers of intuition.



**Life and
Prophecies
MOTHER
SHIPTON**

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During the whole night every fibre in my brain was strained in expectancy, but nothing happened until

early in the morning, when I fell in a sleep, or perhaps a swoon, and saw a cloud carrying angelic figures of marvelous beauty, one of whom gazed upon me lovingly and gradually assumed the features of my mother. The appearance slowly floated across the room and vanished, and I was awakened by an indescribably sweet song of many voices. In that instant a certitude, which no words can express, came upon me that my mother had just died. And that was true. I was unable to understand the tremendous weight of the painful knowledge I received in advance, and wrote a letter to Sir William Crookes while still under the domination of these impressions and in poor bodily health. When I recovered, I sought for a long time the external cause of this strange manifestation and, to my great relief, I succeeded after many months of fruitless effort.

I had seen the painting of a celebrated artist, representing allegorically one of the seasons in the form of a cloud with a group of angels which seemed to actually float in the air, and this had struck me forcefully. It was exactly the same that appeared in my dream, with the exception of my mother's likeness.

The music came from the choir in the church nearby at the early mass of Easter morning, explaining everything satisfactorily in conformity with scientific facts.

This occurred long ago, and I have never had the faintest reason since to change my views on psychical and spiritual phenomena, for which there is no foundation. The belief in these is the natural outgrowth of intellectual development. Religious dogmas are no longer accepted in their orthodox meaning, but every individual clings to faith in a supreme power of some kind.



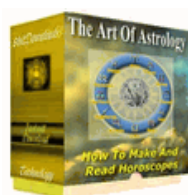
**JOHN
LENNON
FBI
files**

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We all must have an ideal to govern our conduct and insure contentment, but it is immaterial whether it be one of creed, art, science, or anything else, so long as it fulfils the function of a dematerializing force. It is essential to the peaceful

existence of humanity as a whole that one common conception should prevail. While I have failed to obtain any evidence in support of the contentions of psychologists and spiritualists, I have proved to my complete satisfaction the automatism of life, not only through continuous observations of individual actions, but even more conclusively through certain generalizations. these amount to a discovery which I consider of the greatest moment to human society, and on which I shall briefly dwell.



The Art Of ASTROLOGY

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I got the first inkling of this astonishing truth when I was still a very young man, but for many years I interpreted what I noted simply as coincidences. Namely, whenever either myself or a person to whom I was attached, or a cause to which I was devoted, was hurt by others in a particular way, which might be best popularly characterized as the most

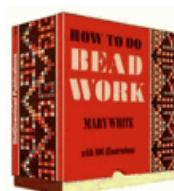
unfair imaginable, I experienced a singular and undefinable pain which, for the want of a better term, I have qualified as "cosmic" and shortly thereafter, and invariably, those who had inflicted it came to grief.

After many such cases I confided this to a number of friends, who had the opportunity to convince themselves of the theory of which I have gradually formulated and which may be stated in the following few words: Our bodies are of similar construction and exposed to the same external forces. This results in likeness of response and concordance of the general activities on which all our social and other rules and laws are based. We are automata entirely controlled by the forces of the medium, being tossed about like corks on the surface of the water, but mistaking the resultant of the impulses from the outside for the free will. The movements and other actions we perform are always life preservative and though seemingly quite independent from one another, we are connected by invisible links. So long as the organism is in perfect order, it responds accurately to the agents that prompt it, but the moment that there is some derangement in any individual, his self-

preservative power is impaired.

Everybody understands, of course, that if one becomes deaf, has his eyes weakened, or his limbs injured, the chances for his continued

existence are lessened. But this is also true, and perhaps more so, of certain defects in the brain which drive the automaton, more or less, of that vital quality and cause it to rush into destruction. A very sensitive and observant being, with his highly developed mechanism all intact, and acting with precision in obedience to the changing conditions of the environment, is endowed with a transcending mechanical sense, enabling him to evade perils too subtle to be directly perceived. When he comes in contact with others whose controlling organs are radically faulty, that sense asserts itself and he feels the "cosmic" pain.



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The truth of this has been borne out in hundreds of instances and I am inviting other students of nature to devote attention to this subject, believing that through combined systematic effort, results of incalculable value to the world will be attained. The idea of constructing an automaton, to bear out my theory, presented itself to me early, but I did not begin active work until 1895, when I started my wireless investigations.

During the succeeding two or three years, a number of automatic mechanisms, to be actuated from a distance, were constructed by me and exhibited to visitors in my laboratory.



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In 1896, however, I designed a complete machine capable of a multitude of operations, but the consummation of my labors was delayed until late in 1897.

This machine was illustrated and described in my article in the Century Magazine of June, 1900; and other periodicals of that time and when first shown in the beginning of 1898, it created a sensation such as no other invention of mine has ever produced.

In November, 1898, a basic patent on the novel art was granted to me, but only after the Examiner-in-Chief had come to New York and witnessed the performance, for what I claimed seemed unbelievable. I remember that when later I called on an official in Washington, with a view of offering the invention to the Government, he burst out in laughter upon my telling him what I had accomplished. Nobody thought then that there was the faintest prospect of perfecting such a device. It is unfortunate that in this patent, following the advice of my attorneys, I indicated the control as being affected through the medium of a single circuit and a well-known form of detector, for the reason that I had not yet secured protection on my methods and apparatus for individualization. As a matter of fact, my boats were controlled through the joint action of several circuits and interference of every kind was excluded.

Most generally, I employed receiving circuits in the form of loops, including condensers, because the discharges of my high-tension transmitter ionized the air in the (laboratory) so that even a very small aerial would draw electricity from the surrounding atmosphere for hours.



**Secret
Powers of
Crystals &
Gemstones**

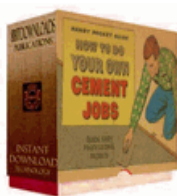
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Just to give an idea, I found, for instance, that a bulb twelve inches in diameter, highly exhausted, and with one single terminal to which a short wire was attached, would deliver well on to one thousand successive flashes before all charge of the air in the laboratory was neutralized. The loop form of receiver was not sensitive to such a disturbance and it is curious to note that it is becoming popular at this late date. In reality, it collects much less energy than the aerials or a long grounded wire, but it so happens that it does away

with a number of defects inherent to the present wireless devices.

In demonstrating my invention before audiences, the visitors were requested to ask questions, however involved, and the automaton would answer them by signs. This was considered magic at the time, but was extremely simple, for it was myself who gave the replies by means of the device.



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At the same period, another larger telautomatic boat was constructed, a photograph of which was shown in the October 1919 number of the *Electrical Experimenter*. It was controlled by loops, having several turns placed in the hull, which was made entirely water-tight and capable of submergence. The apparatus was similar to that used in the first with the exception of certain special features I introduced as, for example,

incandescent lamps which afforded a visible evidence of the proper functioning of the machine. These automata, controlled within the range of vision of the operator, were, however, the first and rather crude steps in the evolution of the art of Telautomatics as I had conceived it.

The next logical improvement was its application to automatic mechanisms beyond the limits of vision and at great distances from the centre of control, and I have ever since advocated their employment as instruments of warfare in preference to guns. The importance of this now seems to be recognized, if I am to judge from casual announcements

through the press, of achievements which are said to be extraordinary but contain no merit of novelty, whatever. In an imperfect manner it is practicable, with the existing wireless plants, to launch an aeroplane, have it follow a certain approximate course, and perform some operation at a distance of many hundreds of miles. A machine of this kind can also be mechanically controlled in several ways and I have no doubt that it may prove of some usefulness in war. But there are to my best knowledge, no

instrumentalities in existence today with which such an object could be accomplished in a precise manner. I have devoted years of study to this matter and have evolved means, making such and greater wonders easily realizable.

As stated on a previous occasion, when I was a student at college I conceived a flying machine quite unlike the present ones. The underlying principle was sound, but could not be carried into practice for want of a prime-mover of sufficiently great activity. In recent years, I have successfully solved this problem and am now planning aerial machines 'devoid of sustaining planes, ailerons, propellers', and other external attachments, which will be capable of immense speeds and are very likely to furnish powerful arguments for peace in the near future.



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Such a machine, sustained and propelled 'entirely by reaction', is shown on one of the pages of my lectures, and is supposed to be controlled either mechanically, or by wireless energy. By installing proper plants, it will be practicable to 'project a missile of this kind into the air and drop it' almost on the very spot designated, which may be thousands of miles away.



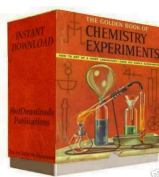
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But we are not going to stop at this. Telautomats will be ultimately produced, capable of acting as if possessed of their own intelligence, and their advent will create a revolution. As early as 1898, I proposed to representatives of a large manufacturing concern the construction and public exhibition of an automobile carriage which, left to itself, would perform a great variety of operations involving something akin to judgment. But my proposal

was deemed chimerical at the time and nothing came of it.



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At present, many of the ablest minds are trying to devise expedients for preventing a repetition of the awful conflict which is only theoretically ended and the duration and main issues of which I have correctly predicted in an article printed in the SUN of December 20, 1914.

The proposed League is not a remedy but, on the contrary, in the opinion of a number of competent men, may bring about results just the opposite.



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It is particularly regrettable that a punitive policy was adopted in framing the terms of peace, because a few years hence, it will be possible for nations to fight without armies, ships or guns, by weapons far more terrible, to the destructive action and range of which there is virtually no limit.

Any city, at a distance, whatsoever, from the enemy, can be destroyed by him and no power on earth can stop him from doing so. If we want to avert an impending calamity and a state of things which may transform the globe into an inferno, we should push the development of flying machines and wireless transmission of energy without an instant's delay and with all the power and resources of the nation.

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The Man Behind the Mind

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In the small village of Smiljan, Croatia (then Austria-Hungary), Nikola Tesla was born exactly at the stroke of midnight between July 9 and 10, 1856 -- an incidental schism that befits the beginnings of a man who always seemed out of time with the world around him. From early childhood, it was apparent that Nikola possessed an extraordinary mind. His father, Milutin Tesla, was a minister who trained Nikola to strengthen his memory and reasoning skills through a variety of regular mental exercises. But Tesla gave the highest credit for his talents to his mother's side of the family, whom he referred to as a long line of inventors. Despite Djouka Tesla's lack of formal education, she created numerous original tools for sewing and other tasks around her household.

Tesla had an older brother, Dane, whom he considered his superior in every way. When Nikola was five and Dane was twelve, Nikola was

jealous of Dane's white stallion, which their father said Nikola was too young to ride. One day Nikola used a blow gun to shoot a pea at the horse, causing it to throw Dane from its back.

Dane later died from his injuries. Feelings of guilt over this tragedy haunted Tesla throughout his life. No matter how great his achievements, he always believed that Dane could have outdone him.



*The
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During his early life, Tesla was stricken with illness time and time again. He suffered a peculiar affliction in which blinding flashes of light would appear before his eyes, often accompanied

by hallucinations. Much of the time the visions were linked to a word or idea he might come across; just by hearing the name of an item, he would involuntarily envision it in realistic detail.

The flashes and images caused Tesla great discomfort, and by the time he reached his teens he had taught himself to repress them from occurring except in certain times of stress.

When they did happen, they sometimes had a nature that might be described as psychic.

In one case, the young Tesla recklessly attempted to swim beneath a large floating structure that extended further than he realized. Finding himself trapped in the dark water with no sign of the surface, a flash appeared, and with it a vision of a small opening to air. Tesla's vision turned out to be correct, and the strange curse apparently saved him from drowning.

Upon the deaths of his father and mother, Tesla claimed to have detailed premonitions just before each passing. In his later years, Tesla boasted of successfully transmitting an image from his mind into that of a person in another room.



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Shortly after his graduation from high school, Tesla suffered a devastating bout with cholera and nearly died. He was bedridden for nine months, and doctors announced that he would not live much longer. Tesla was occupying his still-active mind by reading as much as his body would permit, when he encountered a strange new kind of literature: "Innocents Abroad," by Mark Twain. Tesla was captivated by the humor and humanity of this up-and-coming American author, whose work so raised his spirits that he made a miraculously abrupt recovery to health. Years later in the United States, Tesla met Samuel Clemens

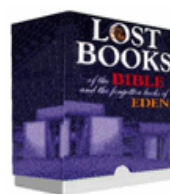
and was able to thank him for having saved his life. Clemens went on to become one of Tesla's few close friends.

Tesla underwent another debilitating trauma a few years after recovering from cholera. This time, the nature of the illness and its causes were a complete mystery. Tesla's physical senses, which had always been remarkably acute, seemed to go inexplicably into overdrive, paralyzing him with an overabundance of sensation. The ticking of a pocket watch had become painfully deafening to him, even from several rooms away. He needed rubber cushion inserted beneath the feet of his bed to lessen the vibrations from outside passers by, which felt to him like an earthquake.

Exposure to light was excruciating not only for his eyes, but to the surface of his skin, as well. After a time, the crippling condition eased, and Tesla returned to normal sensory perception with a mental breakthrough that led him to the invention of the alternating current motor.

The physical and emotional travails of Tesla's early life undoubtedly helped shape him into the singular man

he was: a man of immense brilliance, and a nearly equal level of eccentricity. Tesla shunned physical contact with other people, with a special aversion to touching hair. To avoid shaking hands with people he met, he lied that he had injured his hands in a laboratory accident. He apparently never took part in a romantic relationship of any kind. A female acquaintance who grew enamored of Tesla reportedly once took the initiative to kiss him, causing the startled inventor to flee in agony. Still, Tesla exhibited some appreciation for feminine beauty by demanding that his secretaries conform to an exacting standard of dress and physique. His female employees were forbidden to wear pearls, which Tesla for some reason found hideously repulsive.



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Other behaviors of Tesla's seemed to drift into the

realm of compulsive-obsessive disorder. He required any repeated actions in his daily life (such as the footsteps he took in a walk) to be divisible by three, and would keep repeating them until he arrived at a suitable total. Quantities of twenty-seven were the most prized of all, since that number was three cubed.



*The Woman's
BIBLE
a biblical history
of Women*

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Tesla also felt compelled to calculate the exact volume of his food before he ate it. This involved measuring his meal portions with a ruler and dipping pieces in water to determine how many cubic centimeters they displaced. He was especially fond of saltine crackers because of their uniformity of volume.

Many times, such as during the heat of a major project, Tesla would forget to eat altogether, and work for days without sleep. At one point his all-consuming devotion to the laboratory brought on an exhaustion so

severe that for several days he lost all memory of who he was.

Tesla asserted that it was not until he reached adulthood that he discovered he was an inventor. He discounted his early years (perhaps unreasonably) as a time of undisciplined impulses, entirely lacking focus.

But he did invent a wide array of creations and schemes as a child. The first was a simple hook-and-line device for catching frogs. All his young friends imitated it, and the mechanisms performed so well that the local frog population was nearly eradicated. He also built a miniature water wheel which was unique in that it propelled itself without blades. This memory would later inspire his innovation of the bladeless turbine.

The young Tesla created a remarkable machine powered by another natural energy source: June bugs (or, as Europeans call them, May bugs).

He glued sixteen of the live insects to the blades of a small windmill-like structure, and they set the rotor spinning vigorously in their vain attempt to fly

away. Some accounts have jokingly cited this effort as one of Tesla's rare failures, although the inventor himself remained rather proud of the June bug motor. In his autobiography, Tesla explained why he discontinued his research into insect energy:

"These creatures were remarkably efficient, for once they were started, they had no sense to stop and continued whirling for hours and hours and the hotter it was, the harder they worked.

All went well until a strange boy came to the place. He was the son of a retired officer in the Austrian army. That urchin ate May-bugs alive and enjoyed them as though they were the finest blue-point oysters."



*Spanish
**HOLY
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Adding one more entry to his long list of idiosyncrasies, after beholding that spectacle Tesla refused ever to touch another insect again.

The Fight for AC Tesla began his college education at Graz Polytechnic Institute, pursuing studies of the topic that fascinated him above all others: electricity. He had done fairly well in grade school, but his lack of facility at freehand drawing kept him from excelling in technical courses. But in college, Tesla was delighted to find, he was permitted to focus exclusively on what he was best at.



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He studied feverishly almost around the clock, in a routine that began at 3 AM and ended at 11 PM, every day. He aimed to impress his parents with his scholarly achievements, in part because his father had been reluctant to send him to the university, wishing Nikola would follow in his footsteps in the clergy. He also entertained fantasies of going to America and teaming up with the reigning leader of electrical invention, Thomas Edison, so that their combined forces might revolutionize the

world.

Tesla was an extraordinary student who frequently enraged his professors, questioning the technological status quo with an insight that surpassed his instructors'. He rebelled most stringently against the acceptance of direct current as the sole means of delivering electrical power. It was plain to him that DC was inefficient and incapable of adequately transmitting power over long distances, and there had to be a better way.

There was talk of a theoretical "alternating current" system, but no one had figured out how to make it work. AC was frowned upon as a fanciful dream by the scientific establishment, in much the same way as cold fusion is regarded today. Tesla's merest suggestion of AC brought scorn in his lecture halls, but he was never discouraged enough to abandon the enticing riddle. In the middle of Tesla's sophomore year of college, his father was felled by a stroke. Nikola returned home, and his father died soon after.

Tesla never returned to the Polytechnic Institute.

Lacking funds for tuition, he took a job at a government telegraph office. Tesla despaired for his interrupted education, but held on to his dream of becoming an electrical pioneer. It was at this time that Tesla endured his ordeal with hypersensitivity that reduced him to a bedridden invalid. Considering the depressing turns his life had just taken, the bizarre affliction could possibly have been psychosomatic in origin.



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Whatever its cause, when Tesla finally emerged from the prolonged fugue state, he was armed with a powerful new insight on how alternating current could be successfully attained..His great mental leap was this: two coils positioned at right angles and supplied with alternating current 90 out of phase could make a magnetic field rotate, with no need for the cumbersome commutator used in direct

current motors. Tesla knew it would work without even having to build it and test it. Constructing it mentally and letting it run in his mind was proof enough for him. This was Tesla's method for developing inventions throughout his career: no journals, no blueprints, no prototypes. The propensity for turning ideas into concrete visualizations which had tormented him in his youth was now turned to Tesla's advantage.



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Why man sees God
or gods
or no god at all

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He believed his technique was not only a valid one, but actually superior to the common practice of getting everything down on paper and conducting tentative trials. "The moment one constructs a device to carry into practice a crude idea, he finds himself unavoidably engrossed with the details of the apparatus," Tesla wrote in his autobiography. "As he goes on improving and reconstructing, his force of concentration diminishes and he loses sight of the great underlying principle."

Tesla now possessed the answer, but the problem of putting it into practice remained. In 1882 he found employment with Continental Edison Company in Paris, distinguishing himself as a fine engineer. Two years later he traveled to New York to meet the company's president, Thomas Edison himself. It was not the harmonious meeting of the minds Tesla had once dreamed of.

Edison regarded the hotshot European with contempt, and assuredly held no intentions of collaborating with him on some harebrained AC scheme. Edison viewed AC as a pipe dream at best, or, at worst, a threat to usurp his DC-based empire. Tesla tried to make the best of the situation by offering to improve Edison's existing technology to the highest level possible. He promised to increase the efficiency of the DC dynamos by 25%, within two months' time. The skeptical Edison said he would pay Tesla fifty thousand dollars if he succeeded.

Exerting a massive, virtually non-stop effort, Tesla accomplished the feat, enhancing the dynamos by an even better margin than

he proposed.

But when he asked for his fifty thousand dollars, Edison refused to honor the deal, claiming that he had only been joking.

Infuriated, Tesla quit and never worked for Edison again.

Tesla was soon approached by a group of investors who wished to market the arc lamp he had developed. Thus was the Tesla Electric Company founded. Tesla was eager to seize this opportunity to bring AC into existence at last, but his investors wanted nothing to do with it -- so Tesla found himself rejected by the company that bore his own name. That company soon ran afoul of financial hardships, leaving Tesla's stock shares worthless and stripping him of his rights to the arc light.



**PARADOXES
of the
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Penniless, his enterprising spirit finally broken, one of the world's most brilliant

men was reduced to shoveling in a labor crew for a dollar a day. He planned on committing suicide on his upcoming thirtieth birthday, at the stroke of midnight. Before that could happen, A. K. Brown of Western Union learned of Tesla's plight. Aghast, Brown was determined to restore the genius to a worthy place, and offered to furnish him with a laboratory of his own. And what's more, Brown wanted Tesla to pursue the possibilities of alternating current.

Granted a blessed salvation, Tesla immediately went to work assembling his AC dynamo at last. It functioned in reality precisely as it had all those years inside his head. Tesla demonstrated his invention in a heavily publicized lecture, and instantly became the toast of the engineering community. Among the AC converts in the lecture's audience was George Westinghouse, who negotiated with Tesla to manufacture the dynamos. The first application of the new technology: Niagara Falls. Westinghouse won the coveted contract to harness Niagara, bidding half of what Edison bid for the installation of a DC system.

In 1895, the Niagara AC power system enjoyed a flawless inauguration, transmitting electricity to Buffalo twenty-two miles away -- a complete impossibility in the suddenly outmoded world of direct current.

No longer a curious luxury reserved for the urban upper class, electric power in the home would now be commonplace. For the first time in his life, Nikola Tesla was an indisputable success.



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The Fight for AC

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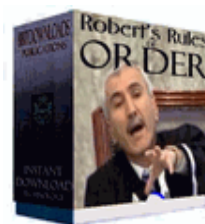
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From the beginning of A. K. Brown's and George Westinghouse's fortuitous partnerships with Tesla, the inventor was at work on other projects above and beyond the AC dynamo.



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Able to devote himself to the unhindered realization of his countless ideas, he would later recall these years of his life as "little short of continuous rapture." Tesla's New York laboratory was a hive of continuous activity, with a small staff of assistants working solely from their employer's verbal instructions. His distaste for putting ideas down on paper, coupled with his

tendency to get bored with a completed invention and move on to the next challenge, led Tesla to toss aside a large number of creations that he never even bothered to patent. Once, when exhaustion left Tesla in a state of temporary amnesia, his assistant filed for patents on many of the unregistered inventions on Tesla's behalf, and had the master sign the papers while still incapacitated. Tesla's shunning of documentation was of some benefit when fire destroyed the lab in 1895, right after the success at Niagara. The loss was a setback, but not a catastrophic one, since the most valuable of the laboratory's assets remained intact in Tesla's brain.

In 1891, Tesla developed the invention by which his name is most commonly known today: the Tesla coil. Simple enough for today's hobbyists and science-fair entrants to construct in fully

functional homemade models, it was nonetheless a remarkable innovation which remains the basis for radios, televisions and other modern means of wireless communication.



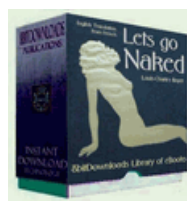
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Tesla became known for the lectures at which he demonstrated his inventions and concepts with a theatrical flair. Many attendees were laymen who had little comprehension of what Tesla said, but were mesmerized by the bolts of lightning that leapt from his ominously humming coils, and the unwired light bulbs that lit at the touch of Tesla's hand. These spectacular displays led Tesla to be popularly

regarded as some sort of magician -- a title that was bestowed not in ridicule, but in awe.



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The wireless transmission of energy would become the ultimate pursuit of Tesla's career. He discovered that a vacuum tube held in proximity to a Tesla coil would burst into illumination, without wires, without even a filament inside the glowing tube. Electrical resonance was the key to this discovery. By determining the frequency of the needed electrical current, Tesla was able to turn a series of different lights on and off selectively, from yards away. He had just become an American citizen in 1891, and this new technology was to be his gift of thanks to his adoptive country: a means of transmitting energy instantly, across any distance, through thin air. Free energy for everyone.

One of Tesla's assistants reportedly questioned the

implications of putting such an energy distribution plan into practice. He wondered what incentive there would be for the electrical power establishment to begin giving away its goods for free, and whether Tesla could possibly be "allowed" to introduce such an arrangement. The presence of such doubts enraged Tesla, who was convinced, somewhat naively, that his plan would be accepted simply because it was the right thing to do.

As the years passed, Tesla's vision of wireless energy grew even grander in scope. He solved one of the problems implicit in his first theory, which was that transmission of power through air over long distances would result in a significant loss of energy. Rather than using air as a medium, he decided to send energy through the ground. This makes little sense in conventional electrical terms, whereby the earth's surface is regarded as, literally, "the ground" -- a sinkhole used for discharging excess current from a conductor. But Tesla found that if it were charged highly enough, the ground could become the conductor itself. In this way, the entire planet could be transformed into a colossal

electric transmitter.

In 1899, as logistics prevented him from conducting the necessary experiments within the confines of New York City, Tesla headed west. A Colorado attorney named Leonard Curtis, who had previously defended Tesla in court, offered to help Tesla set up a testing facility in Colorado Springs. Curtis was also an officer of the local power company, and provided electricity to Tesla at no cost.



**MEDITATION
the
INWARD
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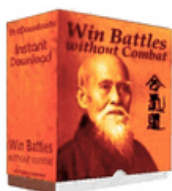
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Tesla and his assistants built a one-of-a-kind laboratory on the outskirts of town, which looked like a large barn topped by a 180-foot metal tower. This was Tesla's "magnifying transformer," which he called the greatest of his inventions.

The townspeople of Colorado Springs were naturally curious about what this great inventor was

up to, and respected the signs around the perimeter of the compound reading "KEEP OUT -- GREAT DANGER!"

Still, they soon felt the effects of Tesla's apparatus. Sparks leapt from the ground as people walked the streets, singeing their feet through their shoes. The grass around the Tesla building glowed with a faint blue light.



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Metal objects held near fire hydrants would draw miniature lightning bolts from several inches away. Switched-off light bulbs within 100 feet of the tower spontaneously lit. And Tesla was only tuning up his equipment.

These were the side effects of adjusting the magnifying transformer into perfect resonance with the earth.

Once it was properly calibrated, Tesla was ready to conduct his career's boldest symphony, using the

entire planet as his orchestra.

Late one night in the fall of 1899, Tesla fired up his machine at full blast, in hopes of producing a phenomenon he called resonant rise. His tower pumped ten million volts into the earth's surface. The current raced through the earth at the speed of light, powerful enough to keep from dying out over the course of its journey. When it reached the opposite side of the planet, it bounced back, like ripples of water returning to their origin. Upon returning, the current was greatly weakened; but Tesla was sending out a series of pulses which reinforced one another, resulting in a tremendous cumulative effect.

At ground zero, where Tesla and his assistant stood bedazzled, the resonant rise manifested itself in an unearthly display of lightning that still stands as the most powerful man-made electrical surge in history. The returning current formed an arc of lightning that stretched skyward from Tesla's tower and progressively grew to an incredible 130 feet long.

Apocalyptic crashes of thunder were heard twenty-

two miles away. Tesla had been concerned that there might be an upper limit to generating resonant surges, but now he believed the potential was limitless. The demonstration did come to an unexpected halt, but that was because the power surge caused the overloaded Colorado Springs power generator to burst into flames. Tesla received no further free power from the plant's furious owners.



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He returned to New York in search of backing for the global implementation of a resonant energy system. Now cognizant of the business world's inevitable reluctance to support giving away free energy, Tesla pitched his new project as a means of transmitting communication, rather than electrical power. Decades before the birth of the Internet, Tesla was envisioning an information superhighway that was a far more sophisticated communication network than the one we use today.

George Westinghouse passed on the idea. Tesla next proposed it to J. P. Morgan, the wealthiest man in America, who had previously declined to finance the inventor. The idea of a monopoly on world communications intrigued Morgan, and he enabled Tesla to build a new laboratory on Long Island. Named Wardencllyffe, it was to be a bigger and better version of his Colorado facility.

While Tesla worked on the project, a string of accidents and bad luck struck Wardencllyffe, and he was beginning to run out of money. Morgan's funds and enthusiasm seemed to evaporate. In a last-ditch effort to keep his investor from deserting him, Tesla revealed to Morgan that his true goal was not to replace the telegraph, but to replace the conventional transmission of electricity.

Morgan responded by withdrawing his support entirely. Tesla would never get another opportunity to bring free energy to the world.

(This was the first document recovered from the archives and was the inspiration to creating this collection.)

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Nikola Tesla

Free Energy

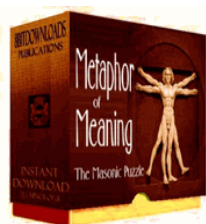
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Nikola Tesla was born on July 9/10 (midnight), 1856 in Smiljam, Croatia, to a Serbian family. His father was an orthodox priest. His mother was unschooled but quite intelligent. Nikola was a dreamer who loved poetry.

He was self-disciplined and compulsive. His principle contribution to the field of electromagnetic engineering is the discovery of the rotating magnetic field and the development of the polyphase electrical system [1p. 161]. Historians credit Tesla with being a genius because he not only made unique discoveries in electromagnetic engineering but developed these discoveries into working systems in an area of science that had almost no existing body of knowledge other than what he himself had uncovered.

Pioneering experiments were also conducted in fluorescent lighting, vacuum tube, radio, robotics, and X-ray technologies [3 pp. 9-13].



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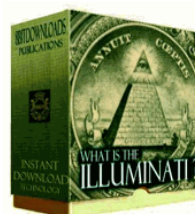
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EARLY EXPERIENCES

Circumstances in Nikola's early life resulted in his imagination being exercised to the extreme. In his mind, Nikola would see flashes of light and vivid images.

These images were not of imagined subjects, but were familiar scenes. The effect was so intense that it affected his ability to see.

Interestingly, his brother exhibited similar difficulties. To gain relief, Nikola would take control of his hallucinations by conjuring up his own images—creating his own imaginary world.



**What is
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the Question
Revealed

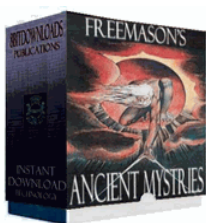
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He would take imaginary journeys to strange places. These experiences were

intense and made as strong an impression on young Nikola as his real life experiences. He played this game constantly from early childhood until the age of 17 when he began channeling his thoughts toward invention [2 p. 11-12].

As an inventor, he was able to eliminate a lot of models, drawings, and experiments by using the imagination he had developed in childhood to work through the development and trials of a new idea. He would conduct his first experiments in his imaginary world, noting problems and making adjustments, thus completing much of the preliminary work before conducting physical experiments [2 p. 12].



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The first commercially generated power was direct current. Although alternating current could be more efficiently transmitted, it was not used because no satisfactory alternating

current motor had been developed.

Tesla pondered this problem for many years. Finally, while walking through a park in Budapest, the idea came to him in a flash. He conceived of a rotating magnetic field, created by multiple phases of AC power. This concept would eventually permit him to develop the first successful AC motor [2 p. 22, 23].

In 1882, Tesla worked at a telegraph office. He invented a telephone amplifier, which he didn't bother to patent. In the fall of 1882, he went to Paris to work for an Edison subsidiary. He worked as a troubleshooter at power plants in France and Germany. He wanted to sell Mr. Edison on his AC power ideas, but was told that Edison was solidly in favor of DC current over AC. On his own time, he built his first AC motor [2 p. 24, 25].



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In 1884, Tesla immigrated to America, bringing a letter of recommendation addressed to Thomas Edison. He happened to catch Edison at a time when the inventor desperately needed help maintaining his many DC electrical systems.

Edison sent Tesla immediately to repair dynamos aboard the SS Oregon. Tesla worked through the night to complete the repairs [2 p. 30-31].

Tesla informed Edison that he could make major improvements in Edison's DC dynamos. Edison said if he did, there would be \$50,000 in it for him.



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Tesla worked long hours for almost a year to complete the redesign. He visited Edison and asked about his \$50,000. Edison replied, "Tesla, you don't

understand our American humor.” Tesla resigned [2 p. 33-34].

America was entering an economic depression and Nikola Tesla found himself working on a New York street gang from 1886 to 1887 [2 p. 36]...



**Ancient
Order
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Daughters
of
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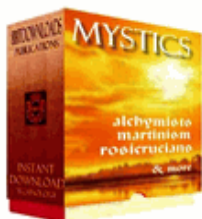
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THE ALTERNATING CURRENT SYSTEM

Finally, Tesla's foreman took him to meet A. K. Brown, manager of Western Union Telegraph Co. With Brown's help, Tesla Electric Co. was formed in April 1887. Tesla patented single-phase, two-phase, and three-phase AC systems, and two AC motors. In the first four years of operation, he was granted 40 patents. The patents were processed quickly since there was nothing like them at the patent office. Both scientific and business interests took note of the patent office

activity and Tesla was soon receiving invitations to lecture. He turned out to be a natural speaker [2 p. 36-39].



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George Westinghouse had more than 30 AC power systems in operation at the time (under a different patent) and was interested in Tesla's motor.

Westinghouse paid Tesla a visit at his lab. Tesla went to work for Westinghouse and moved to Pittsburgh. Tesla's motors ran at 60 Hz AC and could not be adapted to the 133 Hz Westinghouse system.

Westinghouse was forced to switch to 60 Hz and this has become the standard electrical power frequency in the U.S. After several months in Pittsburgh, Tesla returned to New York [2 p.40]. He became a U.S. citizen on July 30, 1891, a status which he valued above all scientific honors.

In September 1891 he went to Paris to lecture at the International Exposition and also visited his family in Croatia [2 p. 41].

Edison was outraged when he learned of Tesla's alliance with Westinghouse. He issued propaganda about the dangers of AC current.

Edison conducted weekly demonstrations in which dogs and cats were electrocuted. Through a third party, he bought rights to Tesla's AC patents and worked a deal with New York prison authorities to carry out the first execution by electrocution on 8/6/1890. The convict failed to die after the first shock and the ordeal had to be repeated. It was reported as "an awful spectacle, far worse than hanging [2 p, 41-45]."



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George Westinghouse became worn down financially by Edison's anti-alternating current initiatives. A major obstacle to the ability of Westinghouse to get new funding was his contract with Tesla to pay him \$2.50 for each horsepower manufactured. George Westinghouse appealed to Tesla to relinquish his claim to the patents. Tesla, interested in seeing his inventions put to use, agreed and settled for a cash sum [2 p. 48-49].



PROJECT Superman & the MONTAUK PROJECT

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Tesla proved to be quite a showman on the lecture circuit. He had glass tubes that glowed without electrical connections. This was the forerunner of the fluorescent bulb, another invention he didn't bother to patent. He wore insulated shoes and allowed high-voltage, high-frequency electric current to flow across his body. His purpose

in doing this was, in part, to collect Edison's propaganda about the danger of AC current. At high frequencies and voltages, electricity would run across the surface of the skin without penetrating.

He demonstrated a motor run on one wire, with the return path through air.



Secret Anti-Social Societies and Social Regeneration

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He spoke of the possibility of transmitting power long distances through the upper atmosphere. One dazzling display was his "carbon-button lamp," a partially evacuated glass globe with a piece of Carborundum in one end connected to a single wire terminal. When high-frequency current was applied, "The central 'button' of material electrostatically propelled the surrounding gas molecules toward the glass globe. They were then repelled back toward the button, striking it and heating it to incandescence

[2 p. 54]." The bulb was 20 times as efficient as the Edison bulb. Since a technical language had not yet evolved to describe these phenomena, Tesla described them poetically. For example, a static discharge he called a brush or a luminous stream [2 p. 54-55].

George Westinghouse won the contract for electrifying the Chicago World's Fair of 1893—the first electrical fair. He invited Tesla to speak. 25 million Americans visited the fair, which was one-third of the population at the time. Tesla had blown tubes to spell "Welcome Electricians," as well as the names of many famous scientists.

He dazzled audiences with numerous demonstrations of high frequency, high-voltage current.



Mysteries of the Brother- hood Secret Societies

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TESLA'S GIFTS TO ENGINEERING

Tesla's discovery of the rotating magnetic field and his inventions of the transformer and induction motor were valuable advancements that are still the means for the production, transmission and use of electrical power today. Less tangible but important contributions were his inspiring lectures and the ideas he left unpatented. In his dazzling demonstrations, he not only amazed his audiences but also sparked the interest of many contemporary and future inventors.

It has taken decades for scientists to reproduce some of the experiments he demonstrated publicly.

How Tesla was able to electrically produce a ball of flame and hold it in his hands remains a mystery.

He energized a wave of invention during the late 19th and early 20th centuries and continues to inspire engineers today.

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Tesla's Death Ray

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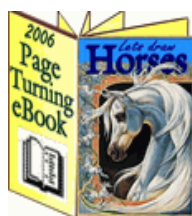
Given that Tesla's inventions generally possessed an element of social conscience, of doing good for humanity, it may seem surprising that he created a number of devices with military applications. And the notion of the Tesla harnessing his mind for purposes of war may seem immensely frightening. After all, this is the man who boasted that with his resonance generator he could split the earth in two... and no one was ever quite sure whether he was joking.

use was his automaton technology, with which the labor of human beings could be performed by machines. Specifically, Tesla produced remote-controlled boats and submarines. He demonstrated the wireless ship at an exposition in Madison Square Garden in 1898. The automaton apparatus was so advanced, it used a form of voice recognition to respond to the verbal commands of Tesla and volunteers from the audience.

In public, Tesla spoke only of the humanitarian virtues of the invention: it would lessen the toils and drudgery of mankind and keep human lives out of harm's way. But Tesla actually had his hopes on a contract with the U.S. military. In a presentation before the War Department, Tesla argued that his unmanned torpedo craft could obliterate the Spanish

Armada and end the war with Spain in an afternoon. The government never took Tesla up on his offer.

Tesla then decided to pitch the automated submarine to private industry, and submitted it for the approval of J. P. Morgan. According to some accounts, Morgan offered to manufacture Tesla's vessels, but only if Tesla would agree to marry Morgan's daughter. Such a deal was of course anathema to Tesla, and he and Morgan would not work together until Wardencllyffe, a couple of years later.

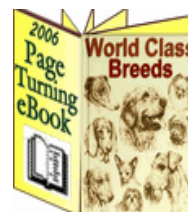


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The first Tesla invention with a proposed military



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Tesla eventually landed a successful military contract -- with the German Marine High Command. The product here was not unmanned sea craft, but sophisticated turbines which Admiral von Tirpitz used to great success in his fleet of warships. After J. P. Morgan cut off his support of Wardencllyffe, this foreign contract was Tesla's only substantial source of income. Upon the outbreak of World War I, Tesla chose to forfeit his German royalties, lest he be charged with treason.



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Nearly broke, and finding the United States on the brink of war, Tesla dreamed up a new invention that might interest the military: the death ray.

The mechanism behind Tesla's death ray is not well understood. It was apparently some sort of particle accelerator. Tesla said it was an outgrowth of

his magnifying transformer, which focused its energy output into a thin beam so concentrated it would not scatter, even over huge distances. He promoted the device as a purely defensive weapon, intended to knock down incoming attacks -- making the death ray the great-great grandfather of the Strategic Defense initiative.

It is not certain if Tesla ever used the death ray, or indeed if he even succeeded in building one. But the following is the often-related story of what happened one night in 1908 when Tesla tested the foreboding weapon.

At the time, Robert Peary was making his second attempt to reach the North Pole. Cryptically, Tesla had notified the expedition that he would be trying to contact them somehow. They were to report to him the details of anything unusual they might witness on the open tundra. On the evening of June 30, accompanied by his associate George Scherff atop Wardencllyffe tower, Tesla aimed his death ray across the Atlantic towards the arctic, to a spot which he calculated was west of the Peary expedition.

Tesla switched on the device. At first, it was hard to tell if it was even working. Its extremity emitted a dim light that was barely visible. Then an owl flew from its perch on the tower's pinnacle, soaring into the path of the beam. The bird disintegrated instantly.

That concluded the test. Tesla watched the newspapers and sent telegrams to Peary in hopes of confirming the death ray's effectiveness.



**the art
of the
MALE**

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Nothing turned up. Tesla was ready to admit failure when news came of a strange event in Siberia. On June 30, a massive explosion had devastated Tunguska, a remote area in the Siberian wilderness. Five hundred thousand square acres of land had been instantly destroyed. Equivalent to ten to fifteen megatons of TNT, the Tunguska incident is the most powerful explosion to have occurred in human

history -- not even subsequent thermonuclear detonations have surpassed it.

The explosion was audible from 620 miles away. Scientists believe it was caused by either a meteorite or a fragment of a comet, although no obvious impact site or mineral remnants of such an object were ever found.

Nikola Tesla had a different explanation. It was plain that his death ray had overshot its intended target and destroyed Tunguska. He was thankful beyond measure that the explosion had -- miraculously -- killed no one.

Tesla dismantled the death ray at once, deeming it too dangerous to remain in existence.

Six years later, the onset of the First World War caused Tesla to reconsider. He wrote to President Wilson, revealing his secret death ray test. He offered to rebuild the weapon for the War Department, to be used purely as a deterrent. The mere threat of such destructive force, he claimed, would cause the warring nations to agree at once to establish lasting peace. The only response to Tesla's proposal was a form letter of appreciation from the president's secretary. The death ray was never reconstructed, and for that we should probably all be thankful.

Tesla made one one further attempt to aid in his country's war effort. In 1917, he conceived of a sending station that would emit exploratory waves of energy, enabling its operators to determine the precise location of distant enemy craft.

The War Department rejected Tesla's "exploring ray" as a laughing stock.

A generation later, a new invention exactly like this helped the Allies win World War II. It was called radar.

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Wildest Dreams

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Forever restless, and untethered by concerns of practicality and marketability, Tesla's mind spawned a vast miscellany of odd inventions.

Many of these were never developed beyond the concept stage, and the ideas seemed to grow markedly weirder in the final years of Tesla's life.

Invention was normally a deliberate process for Tesla, his every intention and goal fully formed before he and his crew lifted a finger. But there were times when he stumbled upon a new discovery by mistake.



**SECRET
OF THE
AGES**
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Tesla performed his first experiments with resonance technology at his New York laboratory by firing up a small oscillator, which caused a minor amount of vibration. Suddenly, an alarmed squad of police officers stormed into the lab, demanding that Tesla stop at once. Manhattan was shaking for miles around. Tesla had not taken into account how resonance waves grow stronger the further they travel from their source. He had unintentionally created what became known as Tesla's earthquake machine.

Tesla also applied his resonance engines in bizarre forms of physical therapy. He created machines that flooded the human body with electrical currents and strong vibrations, intended to soothe aches and promote healing. And Tesla wasn't just the inventor of the "electrotherapeutic" device -- he was also a client. He reportedly became

somewhat addicted to administering the treatment to himself, insisting that a session with the machine rejuvenated him on his long stretches of work without food or sleep. Tesla once let his friend Samuel Clemens try out the healing machine.



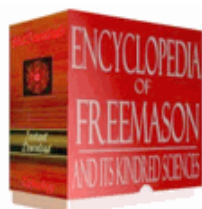
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The author is said to have enjoyed the experience tremendously -- until the vibrations brought him a case of spontaneous diarrhea. Tesla marketed this invention, and the Tesla Electrotherapeutic Company was one of the few commercial enterprises of his old age that was marginally successful.

Tesla gained another accidental revelation during his testing of the magnifying transformer in Colorado Springs. One evening during the construction of the device, the apparatus began to sound out a series of precise clicks, similar to Morse code. Tesla was convinced that these were signals being sent by extraterrestrial life. Tesla had expressed his belief in life on Mars, and now he thought he had proof. He later conceived of transmitters for communicating with Martians, espousing his view that the establishment of peaceful relations with our neighbors from outer space was among the most pressing duties that lay before humanity.



**Encyclopedia
of
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& Kindred
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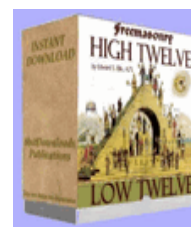
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In his later years, Tesla was fascinated with the idea of light as both a particle and a wave -- the fundamental proposition of what would become quantum physics. This field of inquiry led to the development of his death ray. Tesla also had the idea of creating a "wall of light" by manipulating electromagnetic waves in a certain pattern. This mysterious wall of light would enable time, space, gravity and matter to be altered at will, and engendered an array of Tesla proposals that seem to leap straight out of science fiction, including anti-gravity airships, teleportation and time travel.

The single weirdest invention Tesla ever proposed was probably the "thought photography" machine. He reasoned that a thought formed in the mind created a corresponding image in the retina, and the electrical data of this neural transmission could be read and recorded in a machine.

The stored information could then be processed through an artificial optic nerve and played back as visual patterns on a viewscreen.

It's a pity Tesla never made this last invention a reality. With the dearth of written notes and documentation he left behind for modern science to study, we can only conclude that Tesla's weirdest ideas were misconceived fantasies -- maybe even symptoms of madness. Nothing less than a comprehensive recorded catalog of his brain waves could prove otherwise.



Freemasonry

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SCIENCE and INVENTIONS

TESLA MAPS OUT ELECTRICAL FUTURE

by *H. Winfield Secor, E. E.* _____ *April 1930* ____

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*Sample Daylight **Television**,
Baby Electric **Planes**,
Cosmic **Rays** of Tremendous
Intensity Forseen by
Scientific **Wizard***

Do you use an alternating-current induction motor? A high-frequency coil? A filament less vacuum lamp (such as the neon lamp)? ...At least you know these things and benefit by their use, as most of us do who live in this modern age of wonders. And you will be interested to know that not only these but many other modern electrical methods and appliances are conceptions of the brain of Dr. Nikola Tesla, perhaps the greatest master of electricity alive today.

Fundamental—that is the word that tells best why Dr. Tesla's name is less commonly heard than that of

Edison. For practically half a century Dr. Tesla has occupied himself with the roots and essences of his chosen subject. How essentially necessary to modern industry, offices, and homes is alternating current! For most industrial requirements, direct current is not suited at all. Long-distance transmission of such a current is wasteful and impracticable, as no simple, efficient machinery is available for generating and transforming it at high voltages. Alternating current, on the contrary, lends itself admirably to high voltage generation and to transformation into current of any strength or volume as well as into direct current, at the point of use.... Without alternating current, in short, we could not proceed with modern life. Yet more than forty years ago, Dr. Tesla discovered the principle of

this form of electricity, invented machinery for generating and transforming it, and introduced it to a world which until then had been limping along with direct current as best it could.



*The
Masonic
Way
Lectures
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Steven
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Dr. Tesla's service in this immense field opened up by him is summed up strikingly by Dr. A. B. Behrend, in his book on the alternating-current induction motor : —
"Were we to eliminate from

our industrial world the results of Mr. Tesla's work, the wheels of industry would cease to turn, our electric trains and cars would stop, our towns would be dark, our mills dead and idle. So far-reaching is this work that it has become the warp and woof of industry."



***The
Secret
Powers
Behind
Revolutions***

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Because Dr. Tesla knows the principles of electricity and has checked his knowledge in practice, he is able to speak with certainty about electricity not only of today but also of tomorrow.... His forecast of the electrical future is not that of an imaginative "philosopher," but of an experimenter and calculator. He is sure of what can be done. Because he knows what has been done — by himself. Some results of some of his conclusions he imparted to me in a recent interview.

"Neon lamps are in the public favor and are being used for store windows and in signs quite extensively," said Dr. Tesla, "but I had similar filamentless, gas-filled electric lamps in my laboratory at Houston Street over thirty years ago. I even had these lamps standardized to 50 candle-power each, and used them instead of the orthodox illuminating devices. It seems that I was also far ahead of my time in the use of filamentless tubes, bent in the shapes of characters and other forms, as now extensively used. The light from properly filled vacuum tubes is of indescribable beauty, hygienic and more economical, and the lamps last forever. For these reasons, I predict that very shortly the old-fashioned incandescent lamp, having a filament heated to brightness by the passage of electric current through it, will entirely disappear and that we will shortly be using new filamentless, gas-filled lamps in our homes, offices and factories throughout the world."

I asked Dr. Tesla what he thought of the eventual development and form of television apparatus, "The present day television inventors are on the wrong

track," said Dr. Tesla, "and we shall see in a future not distant, a very simple means of transmitting the living daylight image over a wire or by wireless, without the use of any scanning disc, special synchronizing means and all the bewildering paraphernalia now employed to give an image the size of a postage stamp, and one that is far from satisfactory at that. I have made discoveries many years ago which give me every reason to believe that television of the future will have all of the complicated parts located at the transmitting or central station, and all that the subscriber will have in his home or office to receive the reproduced image will be practically nothing but a screen, together with a suitable wave or station selector."



***Secret
Brother-
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Confessions***

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Among some of the interesting and revolutionary inventions perfected by Nikola Tesla, and which are little known to the public, we find such radically new apparatus as that for the wireless transmission of power, bladeless turbines, airplanes that rise and descend vertically, Tesla high frequency transformers, and the Tesla viscosity speedometer. The higher-priced American cars are fitted with the Tesla speedometer, which registers the speed in miles per hour ;and also for the engineer's use there is the tachometer, or revolution counter, using the unique principle applied by Tesla, viz.,the viscosity or drag of the air between two discs or cups. One of the accompanying diagrams shows the principle of this extremely simple and accurate speed indicator.



***Doctrine
of
Freemasonry
Lectures***
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I asked Dr. Tesla if his speedometer was to be used on some of the American cars being built in very large numbers, and he stated that he had received inquiries from Ford and other quantity producers of automobiles, and as soon as the manufacturing price could be made to conform with the low cost necessary for the cheaper-priced cars, they undoubtedly would be fitted on these cars. This speedometer is based on the fact that when one disc is driven by a flexible shaft from the engine transmission, the drag of the air particles between this revolving disc and a closely positioned second disc is such that the latter will be turned through part of a circle, proportional to the speed of the driven disc. It is only necessary, therefore, to calibrate the second disc in revolutions per minute or miles per hour, to have a perfect speed indicator.

In the Tesla steam turbine no blades of the usual type found in such machines are employed at all. Instead there is simply a series of smooth discs similar to a number of phonograph records, mounted on a shaft with a small space between them. When gas, steam or water, for example, is allowed to

strike through or between these discs from the nozzle, the friction of the fluid on the surfaces of the discs causes a rotation of the same and their attached shaft. As much as twenty horse-power per pound of weight of rotor can be developed by his turbine. Dr. Telsa took out patent in every important country in the world on this unique type of prime mover and it represents the very simplest form of apparatus for converting energy yet discovered.



***Freemason
Rituals
1867***

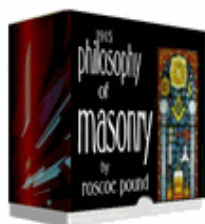
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Aircraft of today are far away from the ultimate form, thinks Dr. Telsa, and the airplane of tomorrow will, he believes, be driven by wireless electric power transmitted from the central station or stations located at various spots on the earth. In this respect it is interesting to mention that Telsa has shown, thirty years ago in patents and in textbooks, the complete

system for transmitting and receiving wireless power, with all the tuning circuits, transformers and other details.

Tesla upholds the startling theory formulated by him long ago, that the radio transmitters as now used, do not emit Hertz waves, as commonly believed, but waves of sound. He says that a Hertz wave would only be possible in a solid ether, but he has demonstrated already in 1897 that the ether is a gas, which can only transmit waves of sound; that is such as are propagated by alternate compressions and rarefactions of the medium in which transverse waves are absolutely impossible. Dr. Hertz, in his celebrated experiments, mistook sound waves for transverse waves and this illusion has been continually kept up by his followers, and has greatly retarded the development of the wireless art.



***The
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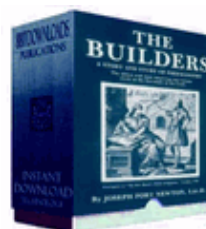
As soon as the experts become convinced of this fact they will find a natural and simple explanation of all the puzzling phenomena of the so-called radio.

Tesla Sees Wireless Power Transmission

Dr. Tesla bases his vast amount of work on the wireless transmission and reception on the marvelous phenomenon of terrestrial resonance, which he discovered in 1899, and his "magnifying transmitter." He considers the whole earth as a huge wire or conductor, and having determined its constants in electrical units, he has designed the proper wireless transmitter needed to set the globe into powerful electrical vibrations, so that at any point of its surface. If we desire to operate lights or motors according to Tesla's power transmission theory, all we have to do is to connect an electrical capacity, such as an antenna or other suitable system of conductors through the apparatus. This capacity

then absorbs its proper quota of oscillating electrical energy of the transmitter.

We have today only radio signals or radio-phone speech, but if Tesla's theory is right, and many engineers think that it is, eventually we shall have no more power transmission lines running from central stations for hundreds of miles to supply us current for our electric fans, toasters, stoves and lights. We shall instead have an electrical capacity in the form of a ball or cylinder perhaps, placed in our attic or possibly in the ceiling of the house and when connected through a Tesla transformer to the earth, we will pick up the desired electrical energy to operate our household devices. It will be a simple matter to connect a meter with this arrangement, so that the energy can be measured and paid for in the regular way to the central station owners.



***The
Builders***
*a story and
study of
Masonry*

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Flying around the world with a Tesla powered airplane is a possibility of the near future. The plane will not have to store every bit of available space with gasoline and oil, nor will it have to carry a heavy engine or engines. A light electric motor will spin the propellers, if indeed we use propellers at all for tomorrow's aircraft; the necessary high frequency electrical energy for operating the motor will be accumulated by a suitable electrical capacity or antenna carried by the plane or other form of aircraft, whatever it may be.



***The
Spirit of
Masonry***

by
***William
Hutchinson
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A recent patent granted to Dr. Tesla describes one method of causing a plane to rise and descend in a vertical line. As soon as we have a plane which can accurately and regularly rise and descend vertically, the day of the aerial taxi will be here, for we can then land or take off

from any flat building roof in our great cities, no matter how small the roof may be. Dr. Tesla says that his flying machine can be condensed into a cube of less than 6 feet on a side, and its weight will be less than 250 pounds. It can be run through the streets and put in a garage, if desired, just like an automobile.

Tesla's Artificial Lightning

One of the most interesting experiments in all electrical phenomena which has intrigued the writer for many years is the production of gigantic electrical discharges.

We read every now and then about high voltage discharges in the neighborhood of a million volts or so, produced in the great laboratories of the large electrical manufacturing companies for testing insulators and the like; but no one up to the present time has even approximated the gigantic artificial lightning displays produced by Nikola Tesla in his famous Colorado

wireless broadcasting plant forty years ago. Electrical experimenters who have studied Tesla's researches and seen some of the photographs of his stupendous electric discharges will remember that some of these measured 100 feet in length, the size of a man's arms, producing a roar comparable to that of Niagara, and which could be heard 12 miles away.

College and electrical students in general, today, often build Tesla coils, which produce high frequency electric sparks of anywhere from one to three and sometimes 4 feet in length. A moment's reflection on the huge electrical discharges produced in the famous Tesla Colorado plant (in which he used 1500 kilowatts) just mentioned, will show the magnificent piece of engineering which was accomplished by him,



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when most of the present-day engineers were in their swaddling clothes. In those days Tesla built high frequency transformers over 50 feet in diameter, and in the production of some of his world-startling electrical phenomena he utilized the whole electrical output from a central station, involving the instantaneous discharge of millions of volts and thousands of amperes.



**Discovery
Collection
"Political
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Societies"**

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Tesla's theories are generally radically opposed to those entertained by the majority of scientists on many subjects, absorbing the interest of the public. He denies the existence of an electron as pictured by science and says that it has never been isolated. He thinks that some of the investigators have mistaken a hydrogen molecule for an electron, a rather comical error when considering that the former is assumed to be 125,000,000,000,000 times

bigger. He deprecates the popular idea of deriving motive power from the disintegration of atoms, or change of elements, and

characterizes such schemes as worse than those involved in perpetual motion machines. He holds that radio-activity is due, not to forces in the substances themselves, but to a cosmic ray, the discovery of which he announced in 1897. In other words, an element like radium emits radiations merely because the cosmic ray impinges upon it, producing these secondary effects.

The element itself has no such energy, it all comes from the cosmic ray. Tesla says that he has proved the existence of this ray by mathematical analysis and experiment, finding both in perfect agreement. It would seem to follow, from Tesla's theory, that the radiation from radiums, or similar bodies, would change from place to place on the globe; and this has recently proved to be an actual fact, as determined by a Russian investigator. Tesla assured the writer in a recent interview, that through a new discovery he has perfected rays of tremendous power, penetrating through miles of solid substances,

will become available shortly, by the use of his high potential cathode tube, without a target.

Truly it may be said that Nikola Tesla was 100 years ahead of his time, and there is not the slightest doubt that his name will go down to posterity as one of the greatest inventors and electrical discoverers of all time. Hundreds of patents cover Tesla's inventions, * and many thousands of his transcending ideas in the fields of mechanical and electrical invention have never been patented at all, but his ideas are recorded in his own private files.

**See Tesla's Patent Numbers, and also Sewall's "Wireless Telegraphy." Also "Experiments With Currents of High Potential and High Frequency," by Nikola Tesla, 1890 and "Problem of Increasing Human Energy," Century Magazine of June, 1900.*

*Compiled and updated by:
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The Forgotten Genius

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2005

On January 7, 1943, Nikola Tesla died in New York City at the age of 87. He was virtually penniless, living at the dilapidated Hotel New Yorker in a room that he shared with a flock of pigeons, which he considered his only friends.

The thriving industries he had built had long since turned their backs on him.

The scientific community shunned him and his eccentric views. To the general public, he was either unknown or an object of ridicule, a lunatic whose ravings were fit only for sensational tabloids. The popular Max Fleischer "Superman" cartoons of the 1940s pitted the Man of Steel against the death rays and electromagnetic terrors of a scheming mad scientist, whose name was Tesla.

How could this have happened? Whatever his flaws, however far afield he may have strayed at times, Tesla surely deserved better than this.

Modern society owes him just as much as the people of his time did, if not more, and yet we have forgotten him.

There are several schools of thought on the question of Tesla's fall into obscurity. The first, and probably the most irrefutable, is that Tesla failed to make the history books because he failed as a businessman.

The most successful people aren't necessarily the most brilliant, but those who can play the game to reach the top. Tesla was a disciple of the pure sciences as opposed to applied science, with little facility at figuring out how to profit from his ideas. His business associates often did not act on behalf of his best interests, and Tesla himself made scores of bad financial decisions.

For example, in the wake of Tesla's successful implementation of AC, he stood to collect an enormous amount of wealth.



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He had signed a contract with Westinghouse which could conceivably have put him among the richest men in America. But when George Westinghouse told Tesla that the financial drain of the arrangement would put his company's future in jeopardy, Tesla ripped the contract to shreds, as a gesture of friendship.

Had he held Westinghouse to the deal, or at least negotiated for a fraction of it, Tesla would have died in luxury, and may have preserved his notoriety much more fittingly.

Other analysts take the blame off Tesla's shoulders, and propose that big business and the U.S. government conspired to suppress the inventor's genius.



Masonic Initiation

by
W. L.
Wilmschurst

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At the top of the suspected conspirator list is Thomas Edison. Edison despised his former employee's success with AC, and it is known that he set out on a campaign to smear Tesla's name. He held demonstrations at which animals were lethally electrocuted with AC-powered devices, in a deceptive and inhumane effort to warn the public of the danger posed by Tesla and Westinghouse's "unsafe" new electrical system. Edison also sat on the War Department advisory board that rejected Tesla's proposals of the death ray and his radar-like device. J. P. Morgan is also implicated in the anti-Tesla cover-up. Morgan counted on increasing his already monumental wealth by exploiting Tesla's ideas, until he learned that Tesla was considering the free distribution of energy -- a terrifying idea to any self-respecting capitalist. He ended his funding of Tesla's experiments at once, and some think he used his considerable clout to ensure that no one else would bankroll Tesla's threatening schemes.

The government, which had always held Tesla at arm's length when he attempted to pitch a proposal, became suddenly fascinated with his work as soon as he died. The FBI ordered the Office of Alien Property to seize all of Tesla's papers and possessions. This confiscation was unequivocally illegal, since Tesla had been an American citizen since 1891.



*The
Meaning
of
Masonry*
by
W. L.
Wilmschurst

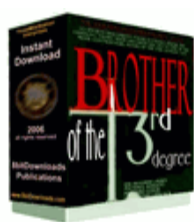
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The records of Tesla's work were judged to pose no threat to national security, and the FBI's file on Tesla was closed in 1943. It was reopened in 1957 in the wake of reports that the Russians were performing mysterious Tesla technology experiments. Many are convinced the Pentagon

has followed suit with top-secret Tesla-based projects of its own, the most infamous being HAARP, the High-frequency Active Auroral Research Program. Reminiscent of Tesla's giant magnifying transmitter, only pointed in the opposite direction, the \$30-million experiment is designed to pump enormous quantities of energy into the atmosphere over Alaska.

The purposes of HAARP are unclear, although researchers probing the project have called it everything from a communications and surveillance network to a mass mind-control device.



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A final theory is that Tesla ruined his reputation with his own outlandish inventions and claims. Some claim that Tesla went wrong as soon as he struck upon his quest for wireless

energy. Others believe that he descended into insanity or senility when he began to speak of death rays and Martians. Tesla never accepted the work of Albert Einstein, which he criticized as being vague and incoherent. Given his adherence to these beliefs, many question how great a scientist Tesla could have been.

Strictly speaking, such arguments are probably correct. To the best of modern scientific knowledge, Tesla's free energy system simply would not work, there are no signals broadcast from Mars, and the theory of relativity is sound. But there are two things left to consider.

First, even if Tesla's later ideas were dead wrong, they by no means diminish the immense quantity of very right ideas that he contributed to our world.



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Life in
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And second, it bears remembering that alternating current was also, perceived as unrealistic Tesla gibberish for quite some time before its true brilliance was finally proven. There is the possibility, however remote, that Tesla's most bizarre concepts will be validated at some point in the future, when science finally catches up with him. Only time will tell.



**Freemason
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For now, Tesla's true legacy is increasingly being recognized, bit by bit. The Supreme Court ruled shortly after his death that Tesla was the legal inventor of radio, not Guglielmo Marconi. Similarly, Tesla has been rightfully acknowledged as the inventor of the fluorescent bulb, the vacuum tube amplifier and the X-ray machine. History books are now starting to include these facts. Finding exposure in

our current so-called "information age," in which technology is king and strange new ideas are tolerated more and more, Tesla is becoming something of a folk hero.

This may run the risk of reducing Tesla and his work to an Internet fad, but any effort that keeps his name alive is worthwhile.

The final fate of Tesla's Wardenclyffe laboratory was strangely fraught with meaning. In 1917, it was consigned to demolition. Tesla's money for its upkeep had run dry, and its meager remaining contents were reportedly coveted by German spies. As a preemptive move, it was dynamited. But the proud steel tower of Wardenclyffe

remained. The demolition crew blasted the site repeatedly, but the tower would not collapse. They had to return at a later date and dynamite it once more.

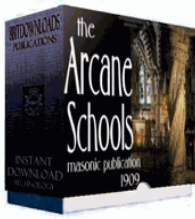
It fell to the ground, but did not explode, nor did it shatter into pieces upon its thunderous impact.



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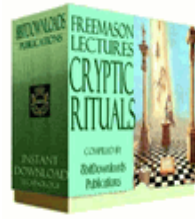
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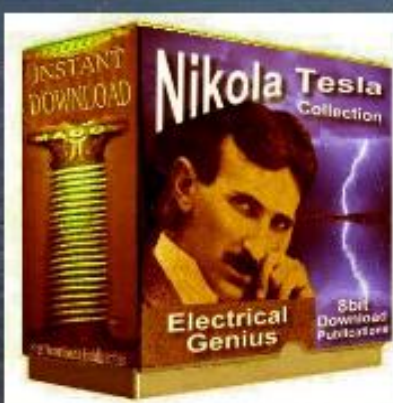
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