

A black and white photograph of Nikola Tesla sitting on a chair in his laboratory. He is wearing a dark suit and is looking down at a book or document in his lap. To his right is a large, cylindrical Tesla coil with a spherical terminal on top. The background is filled with a dense, chaotic web of bright, glowing electrical arcs, resembling lightning or sparks, which are emanating from the apparatus. The overall scene is dramatic and highlights the inventor's work with high-voltage electricity.

MY INVENTIONS
NIKOLA TESLA

AN AUTOBIOGRAPHY

MY INVENTIONS
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MY INVENTIONS

NIKOLA
TESLA

A DISTANT MIRROR

MY INVENTIONS: AN AUTOBIOGRAPHY

by Nikola Tesla

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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 labor, 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 series of articles which will be presented with the assistance of the editors of the *Electrical Experimenter*, 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, promptings 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 importance 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.

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 parents disconsolate.

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 father's life under remarkable circumstances. My father had been called one winter night to perform an urgent duty and while crossing the mountains, which were 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 search party were far on the way they were met by my father, who had recovered consciousness and remounted, not realizing that he had been lying in the snow for several hours. This same horse was responsible for my brother's injuries, from which he died. I witnessed the tragic scene and although 56 years have elapsed since, my visual impression of it has lost none of its force. The recollection of his attainments makes 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 at play 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 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, 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 prospect of being hugged by these relatives, as affectionate as they were unattractive. It happened that while being carried in my mother’s arms they asked me who was the prettier of the two. After examining their faces intently, I answered thoughtfully, pointing to one of them, “This one here is not as ugly as the other.”

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, who was a professor of mathematics in a prominent institution, he 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 á Sancta-Clara. He had a prodigious memory, and frequently recited at length from works in several languages. He often remarked playfully that if some of the classics were lost, he would be able to restore them. His style of writing was much admired; he penned sentences that were short and terse, and was 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 at, 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 tyre."

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

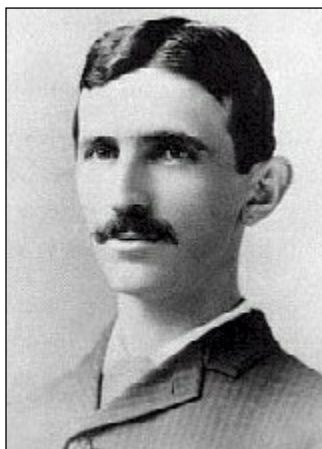
My mother descended from one of the oldest families in the country, and a line of inventors. Both her father and grandfather originated numerous implements for household, agricultural and other uses.

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.

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. All of the members of the family, five in number, succumbed in rapid succession. She bathed, clothed and laid out the bodies, decorating them with flowers according to custom, and when her father returned he found everything ready for a Christian burial.

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 multifold 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 the seeds, raised the plants and separated the fibers herself. She worked indefatigably, from daybreak till late at night, and most of the clothing 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 thought and action. They were pictures of things and



A YOUNG TESLA

scenes which I had really seen, never of those I 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 phenomena. They seem to have been unique, although I was probably predisposed, as I know that my brother experienced 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-racking spectacle. Then, 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. Sometimes it would even remain fixed in space though I pushed my hand through it.

If my explanation is correct, it should be possible to project on a screen the image of any object one conceives, and so make it visible. Such an advance would revolutionize all human relations. I am convinced that this wonder can, and will, be accomplished in times to come; I may add that I have devoted much thought to the solution of the problem.

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 achieve 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 so 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 its force.

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, but by and by I succeeded in fixing 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 farther and farther, 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 form friendships, and meet acquaintances and — however unbelievable — it is a fact that they were just as dear to me as those in real 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 had been led unconsciously to evolve what I consider to be a new method of materializing inventive concepts and ideas, which is radically 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 and defects of the apparatus. As he goes on improving and reconstructing, his force of concentration diminishes, and he loses sight of the great underlying principle. 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 entirely in my mind. It is absolutely immaterial to me whether I run my turbine in my thoughts, 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. 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 mathematically treated and the effects calculated or the results determined beforehand from the available theoretical and practical data. The carrying out into practice of a crude idea as is being generally done is, I maintain, nothing but a waste of energy, money and time.

My early affliction had 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 automaton, endowed with power of movement, responding to the stimuli of the sense organs and thinking and acting accordingly. The practical result of this was the art of 'telautomatics', which has been so far carried out only in an imperfect manner. Its latent possibilities will, however, be eventually shown. For years I have been planning self-controlled automata, and I 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 enterprises.

I was about twelve years old when I first succeeded in banishing an image from my vision by willful effort, but I never had any control over the flashes of light to which I have referred. They were, perhaps, my strangest experience, and were inexplicable. They usually occurred when I found myself in a dangerous or distressing situation, 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 attained a maximum when I was about 25 years old.

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 as though my brain had caught fire. I saw a light as though a small sun was located in it, and I spent the whole night applying cold compresses to my tortured head. Finally the flashes diminished in frequency and strength, but it took more than three weeks before they subsided entirely. When a second invitation was extended to me, my answer was an emphatic 'no'!

These luminous phenomena still manifest themselves from time to time, for example 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 my field of vision, and in about ten seconds vanishes to the left, leaving behind a ground of rather unpleasant and inert grey which quickly gives way to a billowing sea of clouds, seemingly trying to mould themselves into living shapes. It is curious that I cannot project a form

into this grey until the second phase is reached.

Without fail, before falling asleep, images of people or objects flit before my view. When I see them, I know that 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 a part in my early life, I may illustrate with 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 as 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.

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 to the earrings of women, but other ornaments, such 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. 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 my 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 the courage nor strength to form a firm resolve. My feelings came in waves and surges, and vibrated unceasingly between extremes. My wishes were of all-consuming power, and like the heads of the hydra, they multiplied. I was oppressed by thoughts of pain in life, of death, and religious fear. I was swayed by superstitious belief and lived in constant dread of spirits 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 the best. My father had a large library, and whenever I could manage to, I tried to satisfy my passion for reading. He did not permit it, and would fly into 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 cover the keyhole and the cracks in the door and read, often till dawn, when the rest of the family slept and my mother started on her daily tasks.

On one occasion, I came across a novel entitled *Abafi* (The Son of Aba), a Serbian translation of a well

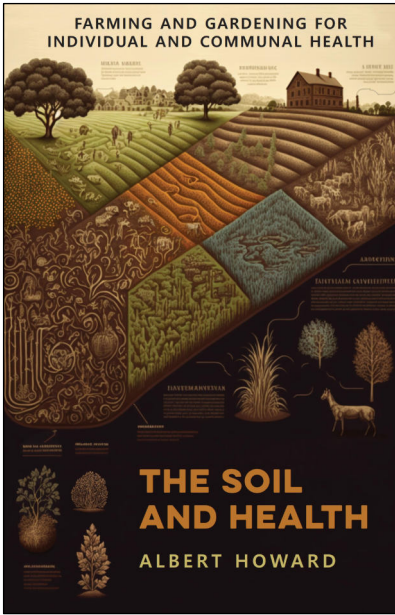
known Hungarian writer, Josika. This work somehow awakened my dormant powers of will, and I began to practice self-control. At first, my resolutions faded like snow in April, but soon I conquered my weakness, and felt a pleasure I never knew before — *that of doing as I willed*. In the course of time, this vigorous mental exercise became second nature to me. 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 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 is it worthwhile 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. 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.



The Soil and Health

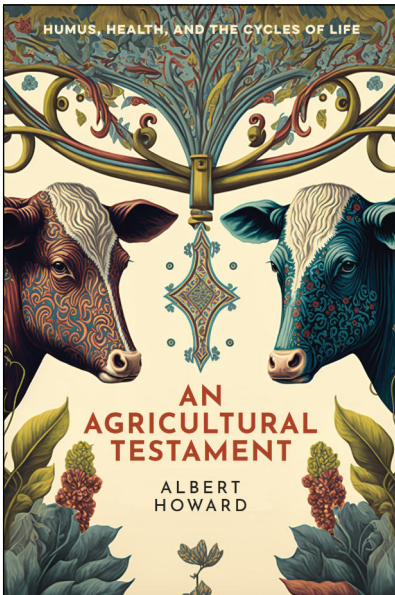
Albert Howard

This valuable book is a detailed analysis of the vital role of humus and compost in soil health – and the importance of soil health to the health of crops and the humans who eat them. The author is keenly aware of the dead end which awaits humanity if we insist on growing our food using artificial fertilisers and poisons.

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An Agricultural Testament

Albert Howard

A new edition of Howard's classic work from the early days of the organics movement in Britain.

Howard's discoveries and methods, and their implications, are given in detail. They are of enormous usefulness to gardeners and farmers, and to anyone who may be interested in the history and the problems of land use.

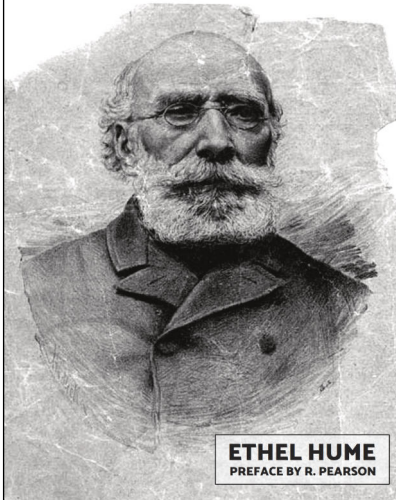
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BÉCHAMP OR PASTEUR?

A LOST CHAPTER IN THE HISTORY OF BIOLOGY



Béchamp or Pasteur?

Ethel Hume / Robert Pearson

Pearson's *Pasteur: Plagiarist, Imposter* was originally published in 1942 and is a succinct introduction to both Louis Pasteur and Antoine Béchamp, and the background to the troubled relationship that they shared for their entire working lives. Ethel Hume documents the evidence in detail, so that there is no escaping the obvious conclusion – Pasteur was a fraud.

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The Blood and its Third Element

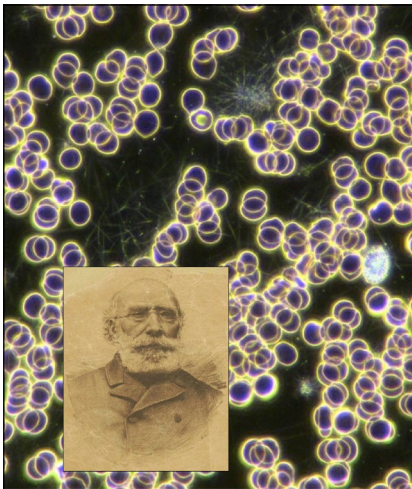
Antoine Béchamp

There is no single cause of disease. The ancients knew this. Béchamp proved it with meticulous research, and was written out of history for his trouble. The relevance of his work to the dilemmas that plague the modern medical world remains to this day unrealized by mainstream science and medicine.

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ANTOINE BÉCHAMP

THE BLOOD
AND ITS THIRD ELEMENT



Air for Fire

D.L. Major

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The Day of the Neflim

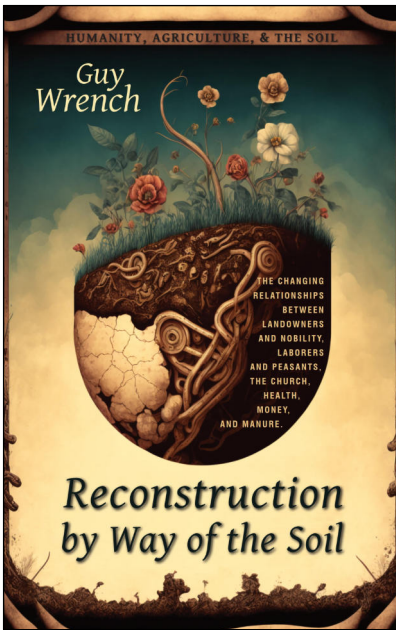
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“...one of the best SF novels I have read since I began reading. I read it straight through, in one sitting. Yeah, that’s right, I did not put the book down until I finished reading it. Couldn’t. Well done, David. Keep writing. Can’t wait to read your next book... you would make Robert Anton Wilson proud, and Douglas Adams smile.” – reader review

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Reconstruction by Way of the Soil

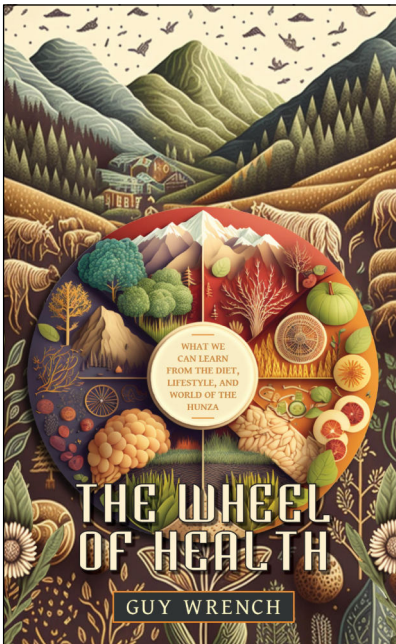
Dr Guy Wrench

Includes case studies from Ancient Rome, nomadic societies, medieval England, Africa and Egypt, the West Indies, Russia, Australia and the USA to show that nothing is more important than the relationship between civilization and the soil. The way that the soil is treated has brought about both the rise and fall of civilizations.

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The Wheel of Health

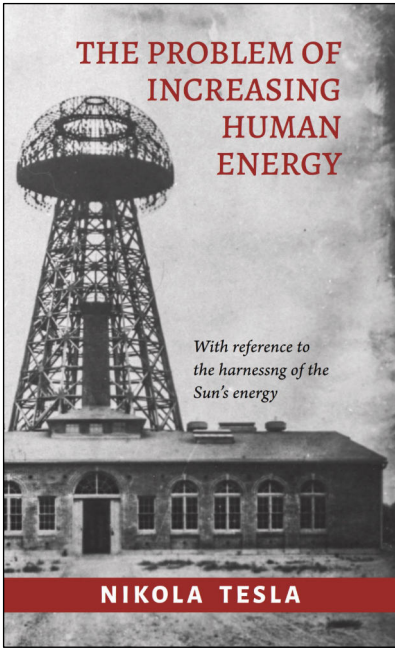
Dr Guy Wrench

The Hunza of northern Pakistan were famous for their extraordinary vitality and health. Dr Wrench argues that in part at least, this is because their food was not made 'sophisticated', by the artificial processes typically applied to modern processed food. How these processes affect our food is dealt with in great detail in this book. What Dr Wrench uncovered in his researches goes deeper than just food, though. It's about water.

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The Problem of Increasing Human Energy

Nikola Tesla

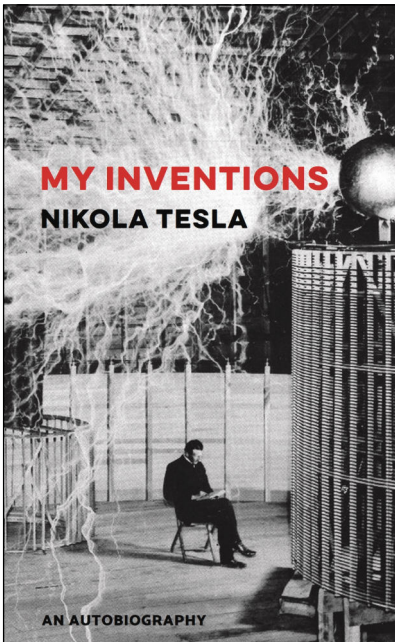
Contains Tesla's thoughts on humanity's relationship with the universe, and also his explanation of the technological wonders embodied in his work.

This text was first published in *Century Illustrated Magazine* in June 1900.

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My Inventions

Nikola Tesla

Not only is this book an invitation to meet one of the greatest minds of the last century, and to hear him talk about his inventions; it is also a chance to get to know Tesla as a person, as the book is filled with anecdotes of his early life.

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EUGÈNE MARAIS

THE SOUL
OF THE APE
&
MY FRIENDS
THE BABOONS



The Soul of the Ape

Eugène Marais

Includes two works by Marais written after his period spent living among a troop of baboons in the South African veldt. *My Friends* was written for a newspaper readership. *The Soul of the Ape* was the more serious scientific document. The excellent introduction by Robert Ardrey was part of the 1969 edition, and adds greatly to an appreciation of the importance of this text.

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The Soul of the White Ant

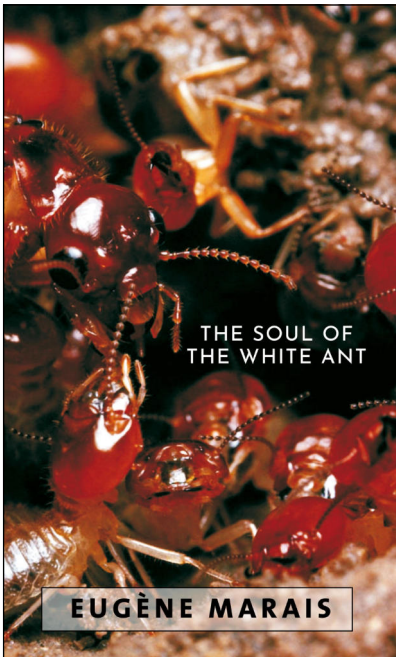
Eugène Marais

The amazing results of a long, close study of the lives of termites. Eugène Marais compares the infrastructure of a termite colony to that of the human body. Writing from the heart, this scientific author who is also a poet instills a wonder in the reader, of the incredible intricacies of nature, in a light-hearted, easily readable manner.

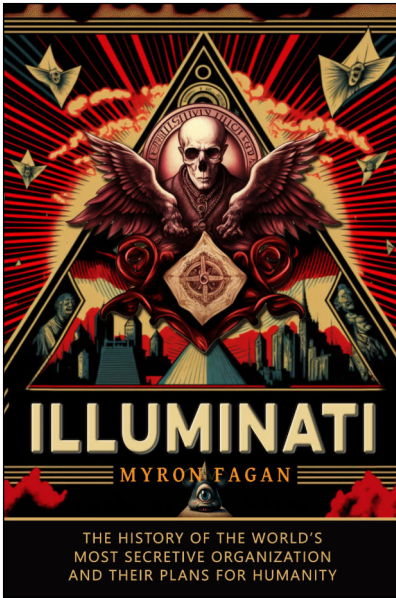
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EUGÈNE MARAIS



ILLUMINATI

Myron Fagan

This book describes how the Illuminati became the instrument of the Rothschilds to achieve a One World Government, and how every war during the past two centuries has been instigated by this group. This is an historical text with names, dates, organizations and mode of operations, all exposing the octopus gripping the world today.

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Response in the Living and Non-living

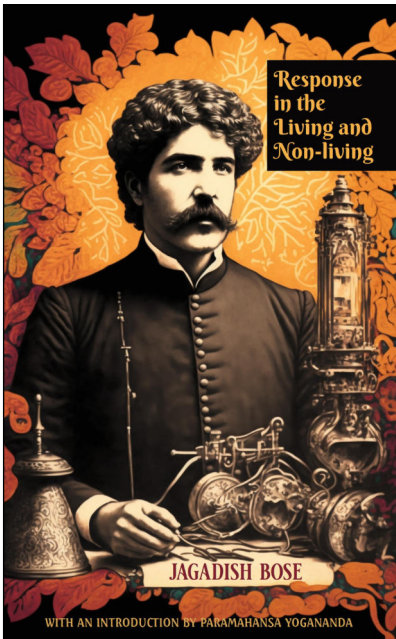
Jagadish Bose

This is one of the great Indian scientist's earlier works. His experiments showed that in the entire range of responses – regardless of whether the subject is metallic, plant or animal – the responses are identical. The living response, in all its diverse modifications, is a repetition of the responses seen in the inorganic. *Everything is alive.*

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Ten Acres is Enough

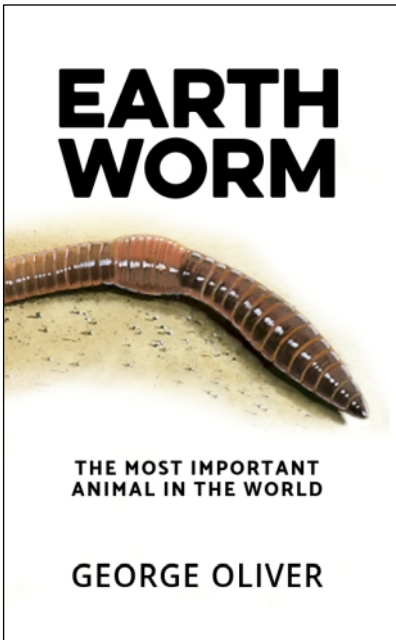
Edmund Morris

Recently we have seen a great back-to-the-land movement, with many young professional people returning to small scale farming; thus it is useful to read about someone who did exactly the same thing in 1864. In that year, Edmund Morris and his family gave up their business and city life for a farm of ten acres, where they made a go of mixed farming, and then wrote a book about it.

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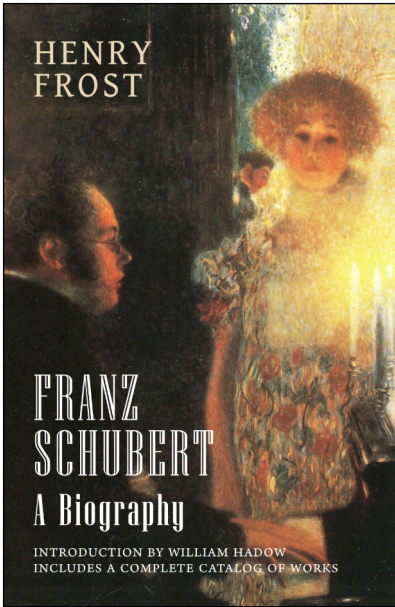
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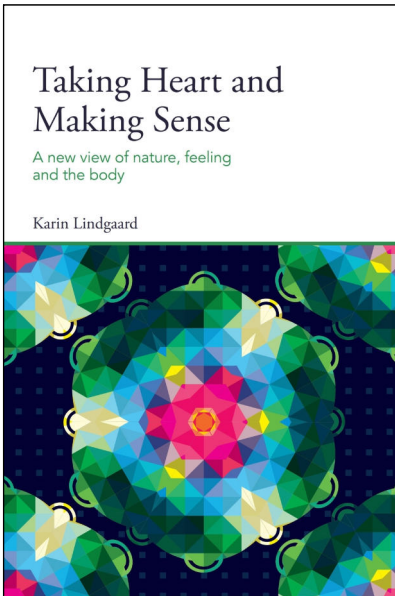
“With faith man steps forth into the world. Faith is far ahead of understanding and knowledge; for to understand anything, I must first of all believe something. Faith is the higher basis on which weak understanding rears its first columns of proof; reason is nothing but faith analysed.”

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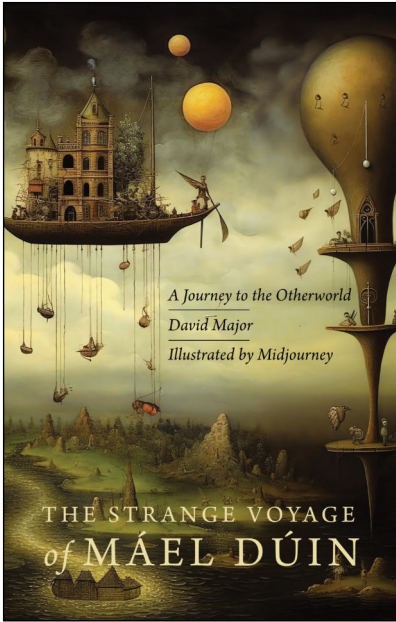
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