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# Understanding Tesla



## Synopsis

Nikola Tesla is known for his ingenious inventions, which gave humanity the opportunity to have at their disposal and apply daily a wonderful kind of energy called electricity. However, the most intriguing is the invention of transformer, named after him, that he could not use in his lifetime, overflowing with myths and assumptions. Since its creation, more than a century has passed, but they not only did not find the application, but also supplemented by new speculations. At present, more and more people are interested in the possibility of creating fuel-free generators of electricity based on Tesla generators. A special discussion causes the possibility of creating such a kind of generators, therefore it is paid a special attention to this question in the book. There are presented analogies from other branches of science and technology to explain the opportunities and reality of their creation. Nicolae Covalenco was able to give a systematic explanation of the processes occurring in the Tesla transformer for the first time in over one hundred years passed since the invention was made. It is the result of many years of intensive work. I had to learn not only the scientific results of generations of researchers in the field of electricity, but also in other areas, such as aerodynamics and fluid dynamics, thermodynamics, and others. They were necessary for analogies and comparisons, in order to more universal understanding of natural phenomena and clear presentation of my vision. The book provides a necessary and well-illustrated information for the understanding the processes occurring in the Tesla transformer. This refers to the electrical charges, electrodynamic shock and corona, and the analogies to the phenomenon of water hammer and the hydraulic ram. Detailed are discussed the opportunities of creation of machines with an efficiency greater than 100%. The analysis of the heat pump and fuel less generator based on Tesla transformer is provided. The central place in the book is given to the step-by-step analysis of our contemporaries results, supporting one or another conclusion of the author. Each conclusion is illustrated with photographs and drawings, which greatly facilitates the understanding of the physical processes. Author deliberately avoided the use of mathematical apparatus for this purpose. Scientific understanding of the processes will help new generations of scientists and inventors to increase the intellectual wealth left by Nikola Tesla to humanity. To this end, the book provides detailed explanations of the phenomena occurring in each element of the transformer, based on modern experimental concrete examples taken from the open sources, the author's experiments, as well as N. Tesla's experiments and explanations. Author outlined his vision in an accessible form for understanding not only by people, who have special training in the field of electricity, but also those, who have a basic knowledge in this field, students studying electricity, enthusiasts, able to enhance their knowledge penetrating the essence of the phenomena described in the book, as well

as a wide range of readers interested in the works of N. Tesla and his life.

## Book Information

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## Customer Reviews

The book helped me to understand the difference between Hertz and Tesla waves due to the detailed explanation of their nature. The ongoing process of air ionization, molecule and electron recombination makes the energy reserve unlimited. Now I realize why Tesla was saying that we live in a sea of energy. The problem is how to extract it. The author gives some fundamentals on how to achieve it. I hope that he will continue the writings in this field. It is an uncommon way in which the author is thinking. He makes similarities of the electric processes to the hydraulic processes for an easier understanding. Closer analysis of electric charge behavior make the reader realize that electrostatic energy is around us in a huge quantity. Another thing that I would like to mention is the discussion of transforming the Hertz discovery in a communication technology invented by Marconi, as well as the explanation why Tesla did not manage to implement his wireless technology.

A very helpful book. It explains not only the processes taking place in the Tesla coil step-by-step, illustrating each affirmation by pictures, but also gives similar comparisons from other than electricity fields. The author makes unexpected and uncommon conclusions that are proved by facts. It seems to me that the most interesting conclusion is about the opportunity to build generators by extracting electricity from the environment. Did we come to the time when everyone will be able to provide themselves with the necessary energy at any point on the globe? It like a very profound conclusion. It could be very useful for all people interested in this topic.

Great book! Easy to read, tons of interesting facts. A great addition to any collection.

Recommended.

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