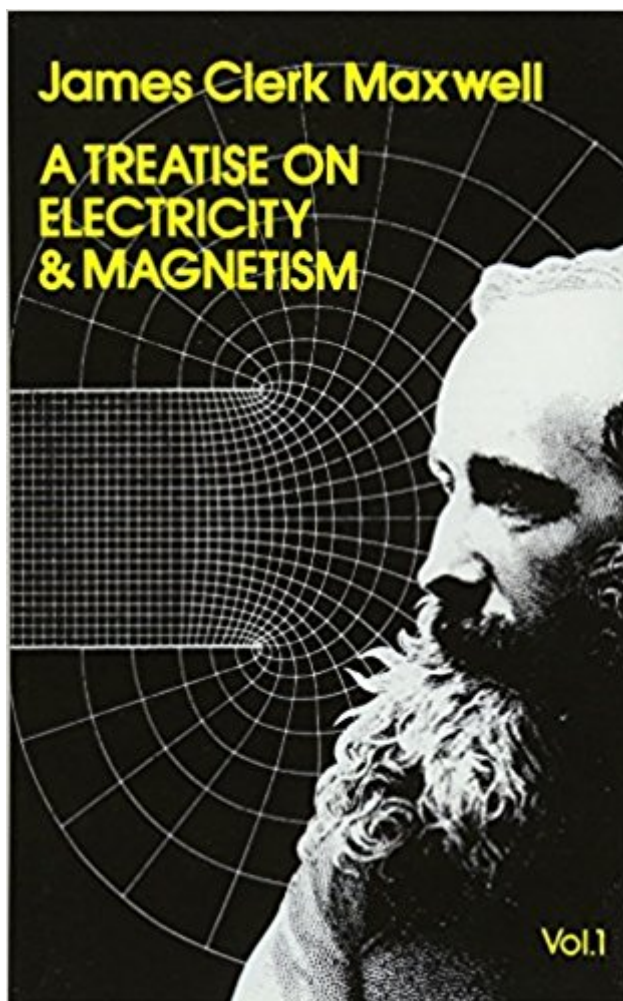


The book was found

Treatise On Electricity And Magnetism, Vol. 1



Synopsis

"Maxwell is without peer. This printing is an opportunity to become thoroughly acquainted with the thoughts of the greatest of our electrical scientists." — School Science and Math Here is the final elaboration of Maxwell's theory of electromagnetism, including the systematic and rigorous derivation of his general equations of field theory. These equations continue to occupy a central position in the modern physicist's view of the physical world. They are a magnificent summary of the fundamental advances in electricity and magnetism, and later inspired the theories of Lorentz on the electron and Einstein on relativity. Einstein himself has said that "The formulation of these equations is the most important event in physics since Newton's time." (The Evolution of Physics.) Volume 1, Part I, "Electrostatics," describes electrostatic phenomena and develops a mathematical theory of electricity. Maxwell discusses electrical work and energy in a system of conductors, mechanical action between two electrical systems, forms of equipotential surfaces and line of flow, spherical harmonics, the theory of electric images, and other topics. Part II, "Electrokinematics," deals with electric current conduction and resistance, electromotive force between bodies in contact, electrolysis, the mathematical theory of the distribution of electric currents, and other topics.

Book Information

Series: Dover Books on Physics (Book 1)

Paperback: 560 pages

Publisher: Dover Publications; 3rd ed. edition (June 1, 1954)

Language: English

ISBN-10: 0486606368

ISBN-13: 978-0486606361

Product Dimensions: 5.4 x 1 x 8 inches

Shipping Weight: 1 pounds (View shipping rates and policies)

Average Customer Review: 4.3 out of 5 stars 21 customer reviews

Best Sellers Rank: #162,202 in Books (See Top 100 in Books) #25 in Books > Science & Math > Physics > Electromagnetism > Magnetism #709 in Books > Science & Math > Chemistry > General & Reference #724 in Books > Engineering & Transportation > Engineering > Electrical & Electronics

Customer Reviews

"If your library does not have copies of the original editions, you should certainly ask them to consider getting these...and you may want one or two for yourself!" MAA Online, April 1999

"Maxwell is without peer. This printing is an opportunity to become thoroughly acquainted with the thoughts of the greatest of our electrical scientists." "School Science and Math Here is the final elaboration of Maxwell's theory of electromagnetism, including the systematic and rigorous derivation of his general equations of field theory. These equations continue to occupy a central position in the modern physicist's view of the physical world. They are a magnificent summary of the fundamental advances in electricity and magnetism, and later inspired the theories of Lorentz on the electron and Einstein on relativity. Einstein himself has said that "The formulation of these equations is the most important event in physics since Newton's time." (The Evolution of Physics.) Volume 1, Part 1, "Electrostatics," describes electrostatic phenomena and develops a mathematical theory of electricity. Maxwell discusses electrical work and energy in a system of conductors, mechanical action between two electrical systems, forms of equipotential surfaces and line of flow, spherical harmonics, the theory of electric images, and other topics. Part II, "Electrokinematics," deals with electric current conduction and resistance, electromotive force between bodies in contact, electrolysis, the mathematical theory of the distribution of electric currents, and other topics.

I have to admit I haven't read this book; I bought it because Maxwell's equations represent one of the great advance in Physics, i.e. the integration of electricity and magnetism into a single theory. I have read that many physicists didn't understand the work when it was first published. Anyone who is serious about reading this book might want to purchase "A Student's Guide to Maxwell's Equations" by Daniel Fleisch

Kind of add questions for this review - If you're looking for an explanation of the connection between Electricity and Magnetism (the equations and science involved) - this book is for you.

This book is a must read if you want to know how electrodynamics theory developed historically - Everything is treated rigorously and in great detail. Also dealt in detail are how electromagnetic quantities are measured, how the instruments developed and their theories of operation.

There are some books that even when they are reprinted editions, the font looks ugly. I liked this version of the treatise on electricity and magnetism, It has a nice font and nice drawings and pictures.

See my rating and commentary on the first volume. The original engineering sourcebook. You need a year of calculus first but reading through still provides original insights on how mathematics of the time contributed to all fields of engineering as discussed by Maxwell.

I gave my husband this book for xmas as it was on his list and he was really surprised and happy to get it. He hasn't read it yet but has skimmed through and likes what he's seen so far.

it's a interesting read if your mind works this way. language is 19 th century style. takes more concentration than modern literature.

This is the basis of electrical theory - his physics was rejected but his equations kept

[Download to continue reading...](#)

Electricity and Magnetism, Grades 6 - 12: Static Electricity, Current Electricity, and Magnets (Expanding Science Skills Series) Treatise on Electricity and Magnetism, Vol. 1 Treatise on Electricity and Magnetism, Vol. 2 Glencoe Physical iScience Modules: Electricity and Magnetism, Grade 8, Student Edition (GLEN SCI: ELECTRICITY/MAGNETIS) Shocking! Where Does Electricity Come From? Electricity and Electronics for Kids - Children's Electricity & Electronics 25 Uses of Electricity 4th Grade Electricity Kids Book | Electricity & Electronics Physics for Scientists and Engineers: Vol. 2: Electricity and Magnetism, Light (Physics, for Scientists & Engineers, Chapters 22-35) The White Treatise and The Black Treatise (The Books of Sorcery, Vol. 2) (Exalted) Electricity and Magnetism (Berkeley Physics Course, Vol. 2) Understanding Physics (Motion, Sound, and Heat / Light, Magnetism, and Electricity / The Electron, Proton, and Neutron) Pyramid science and the unified field: a series of papers on magnetism, bioelectricity and electricity Aspen Student Treatise for Constitutional Law: Principles and Policies (Aspen Student Treatise Series) Electricity And Magnetism (Reading Essentials in Science) Electricity and Magnetism (Usborne Understand Science) A Project Guide to Electricity and Magnetism (Physical Science Projects for Kids) Electricity and Magnetism Essential Calculus-based Physics Study Guide Workbook: Electricity and Magnetism (Learn Physics with Calculus Step-by-Step Book 2) RealTime Physics Active Learning Laboratories, Module 3: Electricity and Magnetism Electricity And Magnetism: Stop Faking It! Finally Understanding Science So You Can Teach It Workshop Physics Activity Guide, Module 4: Electricity and Magnetism

Contact Us

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)