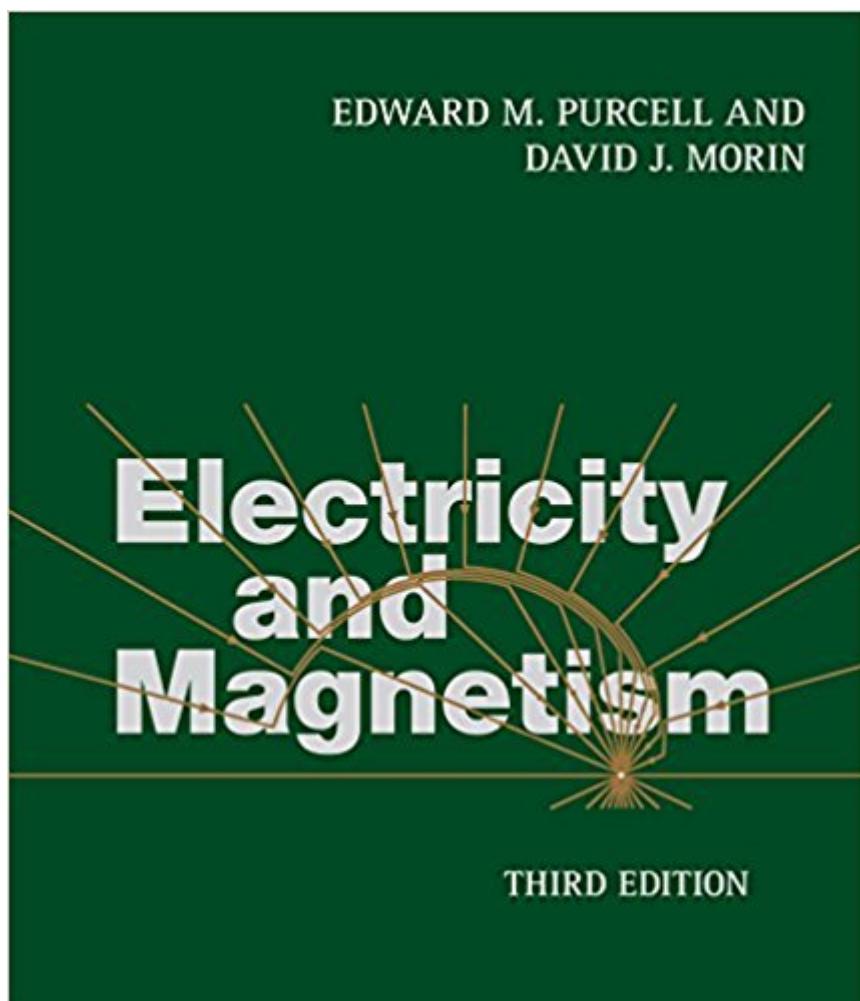


The book was found

Electricity And Magnetism



Synopsis

For 50 years, Edward M. Purcell's classic textbook has introduced students to the world of electricity and magnetism. The third edition has been brought up to date and is now in SI units. It features hundreds of new examples, problems, and figures, and contains discussions of real-life applications. The textbook covers all the standard introductory topics, such as electrostatics, magnetism, circuits, electromagnetic waves, and electric and magnetic fields in matter. Taking a nontraditional approach, magnetism is derived as a relativistic effect. Mathematical concepts are introduced in parallel with the physics topics at hand, making the motivations clear. Macroscopic phenomena are derived rigorously from the underlying microscopic physics. With worked examples, hundreds of illustrations, and nearly 600 end-of-chapter problems and exercises, this textbook is ideal for electricity and magnetism courses. Solutions to the exercises are available for instructors at www.cambridge.org/Purcell-Morin.

Book Information

File Size: 21611 KB

Print Length: 853 pages

Simultaneous Device Usage: Up to 4 simultaneous devices, per publisher limits

Publisher: Cambridge University Press; 3 edition (January 21, 2013)

Publication Date: January 21, 2013

Sold by: Digital Services LLC

Language: English

ASIN: B00ZFM3IZW

Text-to-Speech: Not enabled

X-Ray: Not Enabled

Word Wise: Not Enabled

Lending: Not Enabled

Enhanced Typesetting: Not Enabled

Best Sellers Rank: #238,688 Paid in Kindle Store (See Top 100 Paid in Kindle Store) #13

in Kindle Store > Kindle eBooks > Engineering & Transportation > Engineering > Electrical & Electronics > Electromagnetic Theory #26 in Books > Science & Math > Physics > Electromagnetism > Magnetism #34 in Kindle Store > Kindle eBooks > Nonfiction > Science > Physics > Electromagnetism

Customer Reviews

This is the best freshman E&M text of all time -- provided that the class consists of students ready to handle the material at this level. Although the necessary tools of vector calculus are introduced from scratch, I doubt that most students would be able to get up to speed unless they had already had vector calculus or were at least taking it concurrently. The best known innovation of this book was the presentation of magnetism as a consequence of relativity. The book assumes you've already learned special relativity. (There is an appendix on SR in the 3rd edition, but realistically that wouldn't be sufficient.) I ordered a copy of the 3rd edition (\$76), and compared it side by side with my disintegrating but much-loved copy of the 1965 1st edition. The price is amazingly reasonable compared to the kind of exploitative prices you see these days for textbooks. One thing I'd never noticed before is that the 1st edition has a notice on its copyright page saying that it's available for royalty-free use after 1970. (It was an NSF-sponsored project.) So theoretically it's legal to scan it and put it on the web for free. However, what I find when I look around on the web is people illegally making the 2nd edition available through sleazy file-sharing sites. The most important change is the switch from cgs to SI units. Three cheers. Without this change the book would have stayed in the ghetto forever. The 3rd edition is almost twice the bulk of the 1st. This is mostly because there are far more problems, and many of them have complete solutions in the back of the book. This is a great new feature. There is also an applications section at the end of every chapter.

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

The Ark of Mathematics Part 5: Vector Calculus Electricity And Magnetism Electricity and Magnetism Teach Yourself Electricity and Electronics, 5th Edition (Teach Yourself Electricity & Electronics) Let's Get Charged! (All About Electricity) : 5th Grade Science Series: Fifth Grade Books Electricity for Kids (Children's Physics Books) Introduction to Magnetism and Magnetic Recording (A Wiley-Interscience Publication) Magnetism and Synchrotron Radiation: Towards the Fourth Generation Light Sources: Proceedings of the 6th International School "Synchrotron Radiation ... 2012 (Springer Proceedings in Physics) Introduction to Magnetism and Magnetic Materials, Third Edition Electrodynamics: The Field-Free Approach: Electrostatics, Magnetism, Induction, Relativity and Field Theory (Undergraduate Lecture Notes in Physics) Spin Fluctuations in Itinerant Electron Magnetism (Springer Series in Solid-State Sciences) All I Want (An Animal Magnetism Novel) The Earth's Magnetism THE ADVANCED COURSE IN PERSONAL MAGNETISM. The Secrets of Mental Fascination (Timeless Wisdom Collection Book 158) Confidence: Gorilla Confidence - Simple Habits To Unleash Your Natural Inner Confidence (Self Esteem, Charisma, Personal Magnetism & Self Confidence) Encyclopedia of Electronic Components Volume 3: Sensors for Location, Presence, Proximity, Orientation, Oscillation, Force, Load, Human Input, Liquid and ...

Light, Heat, Sound, and Electricity Energy and power: How man uses animals, wind, water, heat, electricity, chemistry, and atoms to help him in his daily living (Golden library of knowledge) Cash in the Wind: How to Build a Wind Farm using Skystream and 442SR Wind Turbines for Home Power Energy Net-Metering and Sell Electricity Back to the Grid Encyclopedia of Electronic Components Volume 3: Sensors for Location, Presence, Proximity, Orientation, Oscillation, Force, Load, Human Input, Liquid ... Light, Heat, Sound, and Electricity Backyard Winter Gardening: Vegetables Fresh and Simple, in Any Climate Without Artificial Heat or Electricity the Way It's Been Done for 2,000 Years Backyard Winter Gardening: Vegetables Fresh and Simple, In Any Climate without Artificial Heat or Electricity the Way It's Been Done for 2,000 Years Electronic Circuits: The Definitive Guide to Circuit Boards, Testing Circuits and Electricity Principles

[Dmca](#)