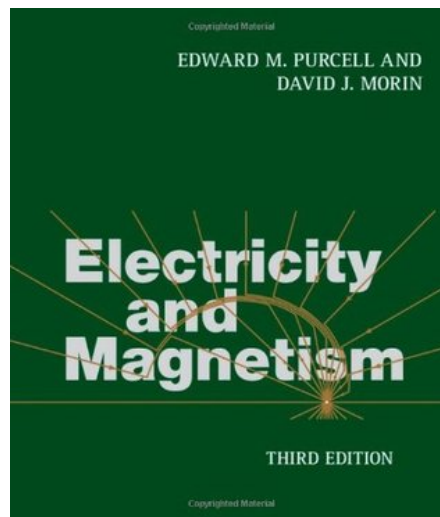




Electricity and Magnetism

Edward M. Purcell , David J. Morin

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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.

Electricity and Magnetism Details

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Adam Lantos says

An amazing book that treats the subject matter in an intuitive way, always providing graphic illustrations. It is a lower-division EM book and that is the only drawback, according to me. It is also very helpful for learning Electromagnetism at a higher level in cases where the reader needs some intuition on the basics and for some visualization of the various electromagnetic phenomena. Moreover, Dr. Morin has taken an already great book and made it even better by adding many more problems (with a huge amount of them also having solutions), but even these problems, no matter how difficult they get (and they can get really difficult at some points), they are still not very mathematically sophisticated (not even at the level of Griffiths' on most occasions).

This is an excellent treatment of Electromagnetism and it might possibly be the best introduction to Electromagnetism as a level just one step lower than that of Griffiths'. But, as building intuition goes, this even beats Griffiths' textbook, which says a lot!

Yangli says

Electricity and Magnetism, Vol. II

Rudradeep Mukherjee says

This book was incredible. Purcell's prose goes to the heart of what science should mean and how electromagnetism should be taught. This book can be re-read for pleasure if and when required. The topics cover the entire breadth of electromagnetism and uses a little (superficial) reference to quantum mechanics. Many subtle things that a physics student might have wondered are treated wonderfully and with full justification. The appendices treating electromagnetic radiation of accelerated charge particles, superconductivity and magnetic resonance are gems as well. Textbooks like this should be the first ones to be introduced to students.

Jim says

This is a good book for reviewing engineering physics as well as hopefully discovering insights. The discussion of electromagnetic fields, charge, and their relation to relativity is lucidly presented.

Yousuf says

This is a tough subject but the book does a great job. There are practice problems for all skill levels.

The part that connected the magnetic force with special relativity was mathematically intense - but eye-opening! If you can keep up with the math you'll learn a lot.

Make sure you brush up on your multivariable calculus and differential equations beforehand.

yyy says

This is a pretty great text. The eager physics student should jump between this and Feynman's lectures, as least for the wealth of problems provided in the latter. Feynman presents many unique problems, and sometimes different solutions for problems in this book; two methods of solving a problem are always better than one!

Marshall Borrus says

I liked his jokes. Best textbook I've had.
