

Electromagnetism. 2nd Edition. Manchester Physics Series

Description: The Manchester Physics Series General Editors: D. J. Sandiford; F. Mandl; A. C. Phillips Department of Physics and Astronomy, University of Manchester Properties of Matter B. H. Flowers and E. Mendoza Optics Second Edition F. G. Smith and J. H. Thomson Statistical Physics Second Edition F. Mandl Electromagnetism Second Edition I. S. Grant and W. R. Phillips Statistics R. J. Barlow Solid State Physics Second Edition J. R. Hook and H. E. Hall Quantum Mechanics F. Mandl Particle Physics Second Edition B. R. Martin and G. Shaw the Physics of Stars Second Edition A. C. Phillips Computing for Scientists R. J. Barlow and A. R. Barnett Electromagnetism, Second Edition is suitable for a first course in electromagnetism, whilst also covering many topics frequently encountered in later courses. The material has been carefully arranged and allows for flexibility in its use for courses of different length and structure. A knowledge of calculus and an elementary knowledge of vectors is assumed, but the mathematical properties of the differential vector operators are described in sufficient detail for an introductory course, and their physical significance in the context of electromagnetism is emphasised. In this Second Edition the authors give a fuller treatment of circuit analysis and include a discussion of the dispersion of electromagnetic waves. Electromagnetism, Second Edition features:

- The application of the laws of electromagnetism to practical problems such as the behaviour of antennas, transmission lines and transformers.
- Sets of problems at the end of each chapter to help student understanding, with hints and solutions to the problems given at the end of the book.
- Optional "starred" sections containing more specialised and advanced material for the more ambitious reader.
- An Appendix with a thorough discussion of electromagnetic standards and units.

Recommended by many institutions. Electromagnetism. Second Edition has also been adopted by the Open University as the course book for its third level course on electromagnetism.

Contents: Force and Energy in Electrostatics.

Dielectrics.

Electrostatic Field Calculations.

Steady Currents and Magnetic Fields.

Magnetic Materials.

Electromagnetic Induction and Magnetic Energy.

Alternating Currents and Transients.

Linear Circuits.

Transmission Lines.

Maxwell's Equations.

Electromagnetic Waves.

Waveguides.

The Generator of Electromagnetic Waves.

Electromagnetism and Special Relativity.

Appendices.

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