

## Electromagnetism (Manchester Physics Series)

By I. S. Grant, W. R. Phillips

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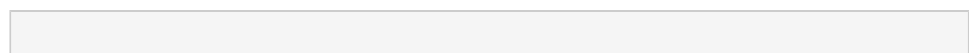
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**Electromagnetism (Manchester Physics Series)** By I. S. Grant, W. R. Phillips

The Manchester Physics Series General Editors: D. J. Sandiford; F. Mandl; A. C. Phillips Department of Physics and Astronomy, University of Manchester  
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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.



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### Editorial Review

From the Publisher

Revised and updated, this work continues to explore the field of electromagnetism, presenting selected topics in a concise, instructive and stimulating way for students of physics. Arranged logically, early chapters cover such topics as electric charge, Gauss' law, polarization, electrostatic field calculations, the magnetic field and magnetic dipole, Ampere's law and magnetic materials. Later chapters examine electromagnetic induction, networks, filters, alternating currents and transients, Maxwell's equations and waveguides. Also included are end-of-chapter problems with answers at the back of the book.

From the Back Cover

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