



# Science for Engineering

*John Bird*

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## Science for Engineering John Bird

A practical introduction to the engineering science required for engineering study and practice.

*Science for Engineering* is an introductory textbook that assumes no prior background in engineering. This new edition covers the fundamental scientific knowledge that all trainee engineers must acquire in order to pass their exams, and has been brought fully in line with the compulsory science and mathematics units in the new engineering course specifications.

John Bird focuses upon engineering examples, enabling students to develop a sound understanding of engineering systems in terms of the basic laws and principles. This book includes over 580 worked examples, 1300 further problems, 425 multiple choice questions (with answers), and contains sections covering the mathematics that students will require within their engineering studies, mechanical applications, electrical applications and engineering systems.

- Colour layout helps navigation and highlights key learning points, formulae and exercises
- Understanding can be tested with the 580 worked examples, 1300 further problems and 425 multiple choice questions contained within the book
- Focuses on real-world situations and examples in order to maximise relevance to the student reader

This book is supported by a companion website of materials that can be found at [www.routledge/cw/bird](http://www.routledge/cw/bird), this resource including fully worked solutions of all the further problems for students to access for the first time, and the full solutions and marking schemes for the revision tests found within the book for lecturers/instructors use. In addition, all 433 illustrations will be available for downloading by staff.

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