



# Mathematical Techniques: An Introduction for the Engineering, Physical, and Mathematical Sciences

*Dominic Jordan, Peter Smith*

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## **Mathematical Techniques: An Introduction for the Engineering, Physical, and Mathematical Sciences**

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Mathematical concepts and theories underpin engineering and many of the physical sciences. Yet many engineering and science students find math challenging and even intimidating.

The fourth edition of *Mathematical Techniques* provides a complete course in mathematics, covering all the essential topics with which a physical sciences or engineering student should be familiar.

By breaking the subject into small, modular chapters, the book introduces and builds on concepts in a progressive, carefully-layered way - always with an emphasis on using math to the best effect, rather than relying on theoretical proofs.

With a huge array of end of chapter problems and new self-check questions, the fourth edition of *Mathematical Techniques* provides extensive opportunities for students to exercise and enhance their mathematical knowledge and skills.

### **Distinctive Features**

- Over 500 worked out examples offer the reader valuable guidance when tackling problems.
- Self-check questions and over 2,000 end of chapter problems provide extensive opportunities for students to actively master the concepts presented.
- A series of projects at the end of the book encourage students to use mathematical software to further their understanding.
- An Online Resource Centre features additional resources for lecturers and students, including figures from the book in electronic format, ready to download; a downloadable solutions manual featuring worked solutions to all end of chapter problems (password protected); and mathematical-based programs relating to the projects featured at the end of the book .



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