



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

By Dominic Jordan, Peter Smith

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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.

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- Over 500 worked out examples offer the reader valuable guidance when tackling problems.
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#### Review

`Review from previous edition This textbook offers an accessible and comprehensive grounding in many of the mathematical techniques required in the early stages of an engineering or science degree and also for the routine methods needed by first and second year mathematics students. ' Engineering Designer March/April 2003

`There are also significant changes in content in the opening chapter, where the foundation material has been expanded usefully. The authors do not attempt to dodge theoretical hurdles. They are careful to explain many of the less intuitive properties of functions and to highlight generalisations without becoming over abstract. ' Times Higher Education Supplement, November 2002

`Thoroughly recommended. ' Zentralblatt MATH, 993:2002

#### About the Author

**Dominic Jordan** is formerly a professor in the Mathematics Department at Keele University, UK.

**Peter Smith** is an Emeritus Professor in the School of Computing and Mathematics at Keele University, UK.

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