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The challenges facing those charged with teaching mathematics to engineers are enormous. Faced with large groups of students possessing a considerable range of abilities, prior experiences, and motivations, it is incumbent upon the developers and deliverers of mathematics programmes to engineers to ensure that such programmes are as inclusive as possible and take into account the particular ...

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This volume and its successor were conceived to advance the level of mathematical sophistication in the engineering community, focusing on material relevant to solving the kinds of problems regularly confronted. Volume One's three-part treatment covers mathematical models, probabilistic problems, and computational considerations. Contributors include Solomon Lefschetz, Richard Courant, and Norbert Wiener. 1956 edition.

An accessible, step-by-step approach to teaching mathematics with today's engineering student in mind. The content is divided into manageable pieces of work ('blocks') focusing on one specific technique and the explanations are gradually developed through fully and part-worked examples. Highlighted key points and use of icons throughout the book aid understanding of the mathematical concepts being presented.

This book is a compendium of fundamental mathematical concepts, methods, models, and their wide range of applications in diverse

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fields of engineering. It comprises essentially a comprehensive and contemporary coverage of those areas of mathematics which provide foundation to electronic, electrical, communication, petroleum, chemical, civil, mechanical, biomedical, software, and financial engineering. It gives a fairly extensive treatment of some of the recent developments in mathematics which have found very significant applications to engineering problems.

A convenient single source for vital mathematical concepts, written by engineers and for engineers. Builds a strong foundation in modern applied mathematics for engineering students, and offers them a concise and comprehensive treatment that summarizes and unifies their mathematical knowledge using a system focused on basic concepts rather than exhaustive theorems and proofs. The authors provide several levels of explanation and exercises involving increasing degrees of mathematical difficulty to recall and develop basic topics such as calculus, determinants, Gaussian elimination, differential equations, and functions of a complex variable. They include an assortment of examples ranging from simple illustrations to highly involved problems as well as a number of applications that demonstrate the concepts and methods discussed throughout the book. This broad treatment also offers:

- \* Key mathematical tools needed by engineers working in communications, semiconductor device simulation, and control theory
- \* Concise coverage of fundamental concepts such as sets, mappings, and linearity
- \* Thorough discussion of topics such as distance, inner product, and orthogonality
- \* Essentials of operator equations, theory of approximations, transform methods, and partial differential equations

It makes an excellent companion to less general engineering texts and a useful reference for practitioners.

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the main fields of mathematics and focuses on the methods used for obtaining solutions of various classes of mathematical equations that underlie the mathematical modeling of numerous phenomena and processes in science and technology. To accommodate different mathematical backgrounds, the preeminent authors outline the material in a simplified, schematic manner, avoiding special terminology wherever possible. Organized in ascending order of complexity, the material is divided into two parts. The first part is a coherent survey of the most important definitions, formulas, equations, methods, and theorems. It covers arithmetic, elementary and analytic geometry, algebra, differential and integral calculus, special functions, calculus of variations, and probability theory. Numerous specific examples clarify the methods for solving problems and equations. The second part provides many in-depth mathematical tables, including those of exact solutions of various types of equations. This concise, comprehensive compendium of mathematical definitions, formulas, and theorems provides the foundation for exploring scientific and technological phenomena.

Mathematics is crucial to all aspects of engineering and technology. Understanding key mathematical concepts and applying them successfully to solve problems are vital skills every engineering student must acquire. This text teaches, applies and nurtures those skills. Mathematics for Engineers is informal, accessible and practically oriented. The material is structured so students build up their knowledge and understanding gradually. The interactive examples have been carefully designed to encourage students to engage fully in the problem-solving process. Features Complete and comprehensive coverage of all essential areas of first year engineering mathematics Hundreds of fully worked, wide ranging examples from many branches of engineering Content divided into self-contained blocks for ease of study Carefully structured interactive examples with conveniently placed solutions to encourage student participation Key points and important results



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highlighted throughout Wealth of practice and revision exercises with solutions Computer and calculator examples and exercises covering a broad range of software New to this edition New key foundation section gives students a firm base in arithmet

This book provides a complete course for first-year engineering mathematics. Whichever field of engineering you are studying, you will be most likely to require knowledge of the mathematics presented in this textbook. Taking a thorough approach, the authors put the concepts into an engineering context, so you can understand the relevance of mathematical techniques presented and gain a fuller appreciation of how to draw upon them throughout your studies.

Clear and engaging introduction for graduate students in engineering and the physical sciences to essential topics of applied mathematics.

Mathematics for Electrical Engineering and Computing embraces many applications of modern mathematics, such as Boolean Algebra and Sets and Functions, and also teaches both discrete and continuous systems - particularly vital for Digital Signal Processing (DSP). In addition, as most modern engineers are required to study software, material suitable for Software Engineering - set theory, predicate and propositional calculus, language and graph theory - is fully integrated into the book. Excessive technical detail and language are avoided, recognising that the real requirement for practising engineers is the need to understand the applications of mathematics in everyday engineering contexts. Emphasis is given to an appreciation of the fundamental concepts behind the mathematics, for problem solving and undertaking critical analysis of results, whether using a calculator or a computer. The text is backed up by numerous exercises and worked examples throughout, firmly rooted in engineering practice, ensuring that all mathematical

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theory introduced is directly relevant to real-world engineering. The book includes introductions to advanced topics such as Fourier analysis, vector calculus and random processes, also making this a suitable introductory text for second year undergraduates of electrical, electronic and computer engineering, undertaking engineering mathematics courses. Dr Attenborough is a former Senior Lecturer in the School of Electrical, Electronic and Information Engineering at South Bank University. She is currently Technical Director of The Webbery - Internet development company, Co. Donegal, Ireland. Fundamental principles of mathematics introduced and applied in engineering practice, reinforced through over 300 examples directly relevant to real-world engineering

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