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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 focus on material relevant to solving mathematical problems regularly confronted by engineers. Volume One's three-part treatment covers mathematical models, probabilistic problems, and computational considerations. 1956 edition.

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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 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

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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.

Giving an applications-focused introduction to the field of Engineering Mathematics, this book presents the key mathematical concepts that engineers will be expected to know. It is also well suited to maths courses within the physical sciences and applied mathematics. It incorporates many exercises throughout the chapters.

Suitable for a first year course in the subject, this book is an introduction to the field of engineering mathematics. The book is accompanied by online bridging chapters - refresher units in core subjects to bring students up to speed with what they'll need to know before taking the engineering mathematics course.

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