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the contents of this 2nd edition have been more sectionalized to make new material more accessible but essentially this book is a 1st level core studies course in mathematics for undergraduate courses in all engineering disciplines

there is a widely understood need for professional engineers and student becoming engineers to think mathematically and to use mathematics to describe and analyse different aspects of the real world they seek to engineer mathematics has long been known to be problematic for university engineering students and their teachers mathematics is the background of every engineering field together with physics mathematics has helped engineering develop without it engineering cannot evolved so fast we can see today without mathematics engineering cannot become as fascinating as it is now linear algebra calculus statistics differential equations and numerical analysis are taught as they are important to understand many engineering subjects such as fluid mechanics heat transfer electric circuits and mechanics of materials to name a few one thinks of the dynamics of structures and industrial fluid mechanics in the engineering of bridges mathematical modeling therefore plays a key role in the formation of engineers and there has been much research into how engineers should be taught the essential mathematics advanced modern engineering mathematics offers a review of standard mathematics coursework while effectively integrating science and engineering throughout the text in this book several examples of applications of mathematics in mechanical chemical and electrical engineering are covered applications in this book are the real ones found in the engineering fields which may not be the same as discussed in many mathematics textbooks the contributed chapters are written by renowned authors and specialists in the subject around the globe this book serves as valuable guide for computer science mechatronics and electrical engineering students as well as for researchers and practitioners

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

this edition of the text continues to present the how and why of engineering mathematics providing a balance between techniques and conceptual understanding the key approach of the work is to develop and illustrate mathematical concepts through examples to try and show students the relevance of mathematics a range of engineering concepts are used

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