

Mathematics in Engineering and Science

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Reviews

It is simple in study easier to fully grasp. It is definitely basic but unexpected situations within the fifty percent in the ebook. I am delighted to let you know that this is actually the finest publication i have got read inside my own life and could be he very best ebook for actually. (Destiny Walsh)

MATHEMATICS IN ENGINEERING AND SCIENCE



John Wiley and Sons Ltd, United Kingdom, 1998. Paperback. Book Condition: New. 1. Auflage. 232 x 192 mm. Language: English . Brand New Book ***** Print on Demand *****. In todaya s world, technology plays an increasingly important role. At the same time, mathematics is finding ever wider areas of application as we seek to understand more about the way in which nature works. Traditionally, engineering and science have relied on mathematical models for design and for the prediction of the behaviour of phenomena. Although widespread availability of computers and pocket calculators has reduced the need for long, tedious calculations to be carried out manually, it is still important to be able to perform simple calculations in order to have a feel for the processes involved. This book starts with a detailed synopsis of the material included in the authorsa related textbook Foundation Mathematics (Wiley, 1998). It then expands the material in the areas of trigonometry, solution of equations and algebra. Vectors are covered next, then calculus is taken forward into geometrical applications. Matrix algebra and uncertainty follow before deeper analysis in chapters on integer variables, differential equations and complex numbers leads towards an appendix on mathematical modelling. Each chapter opens with a list of learning objectives and ends with a summary of key points and results. A generous supply of worked examples incorporating motivational applications is designed to build knowledge and skill. Drill and practice is essential and the exercises are graded in difficulty for reading and revision: the answers at the end of each chapter include helpful hints. Use of a pocket calculator is encouraged where appropriate. Many of the exercises can be validated by computer algebra and its use is strongly recommended where higher algebraic accuracy can be achieved and drudgery removed. The concise and focused approach of...

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