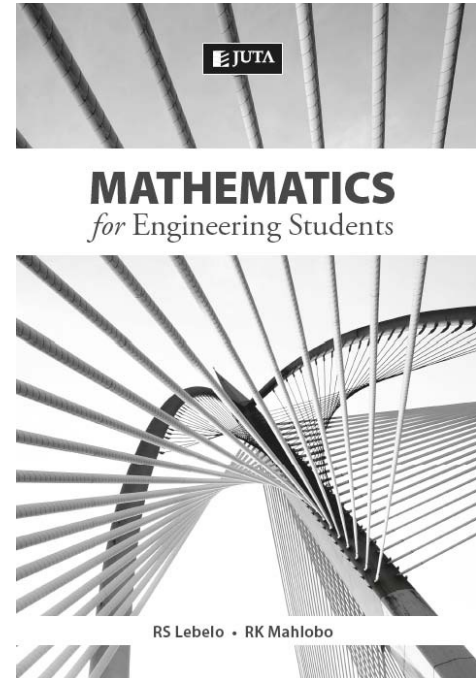


Mathematics for Engineering Students WebPDF

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About this Publication:

Engineering is mathematics in action. But engineering students do not always see the link between what they learn in mathematics and how this applies to engineering problems.

From basic requirements like sustaining sufficient amounts of food to major accomplishments like constructing multifunctional homes, most of society's challenges require mathematics to solve.

This book bridges the gap between mathematics and engineering by including examples from engineering in the solution of mathematical problems, demonstrating that mathematics is a tool for solving existing real-life problems.

The material in this book is suitable for engineering, chemistry, physics and mathematics students and covers the basic areas of application of integration, ordinary and partial differential equations.

Examples and Exercises with Solutions are provided to encourage students to develop their problem-solving acumen, an essential skill for successful engineering in practice.

Contents Include:

CHAPTER 1: APPLICATION OF INTEGRATION
CHAPTER 2: FIRST ORDER DIFFERENTIAL EQUATIONS (ODEs)
CHAPTER 3: HIGHER ORDER DIFFERENTIAL EQUATIONS
CHAPTER 4: FOURIER SERIES
CHAPTER 5: PARTIAL DIFFERENTIAL EQUATIONS