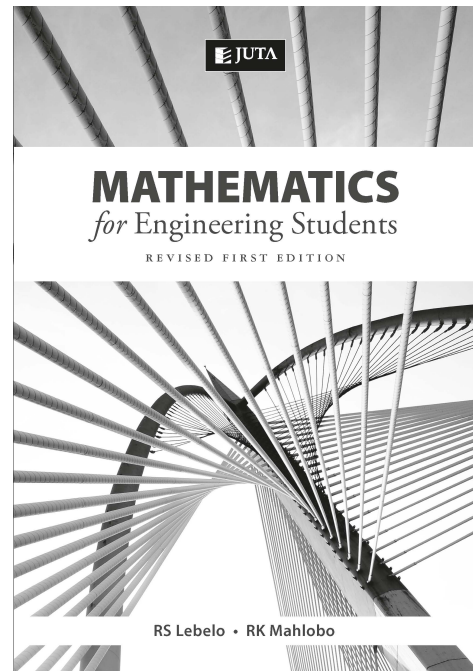


Mathematics for Engineering Students

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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 relatively simple questions, like determining the maximum weight a beam can support to complex projects like mapping out the most efficient electrical flow for a city's traffic lights, mathematics is essential.

Contents Include:

Chapter 1: Application of integration
Chapter 2: First-order ordinary differential equations
Chapter 3: Higher-order ordinary differential equations
Chapter 4: Fourier series
Chapter 5: Partial differential equations

Of Interest and Benefit to:

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 equations. This book bridges the gap between mathematics and engineering by including examples from engineering in the solution of the mathematical problems.

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