# Fundamentals of mathematical physics

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Abstrak

Indispensable for students of modern physics, this text provides the necessary background in mathematics for the study of electromagnetic theory and quantum mechanics. Clear discussions explain the particulars of vector algebra, matrix and tensor algebra, vector calculus, functions of a complex variable, integral transforms, linear differential equations, and partial differential equations.

This volume collects under one cover the mathematical ideas formerly available only by taking many separate courses. It offers in-depth treatments, with a minimum of mathematical formalism. Suitable for students of physics, allied sciences, and engineering, its only prerequisites are a course in introductory physics and a course in calculus. Examples at the end of each chapter reinforce many important techniques developed in the text, and numerous graded problems make this volume suitable for independent study.