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**Sinopsis**

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This best-selling title provides in one handy volume the essential mathematical tools and techniques used to solve problems in physics. It is a vital addition to the bookshelf of any serious student of physics or research professional in the field. The authors have put considerable effort into revamping this new edition.

The book is used both as a reference and as a textbook for aspiring and practicing physicists. As a text it functions best at the graduate level, although it's recommended often as a reference to an undergrad course, almost always in physics departments.

**Contents**

Vector Analysis Vector Analysis in Curved Coordinates and Tensors Determinants and Matrices Group Theory Infinite Series Functions of a Complex Variable I Analytic Properties, Mapping Functions of a Complex Variable II The Gamma Function (Factorial Function) Differential Equations Sturm-Liouville Theory-Orthogonal Functions Bessel Functions Legendre Functions More Special Functions Fourier Series Integral Transforms Integral Equations Calculus of Variations Nonlinear Methods and Chaos Probability