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in Theoretical Physics shows how
a scientist, knowing the answer
to a problem intuitively or**

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general physical laws. Then the approximate solution of these equations is worked out, using small dimensionless physical parameters, or using numerical parameters for the objects under consideration. The eleven chapters of the book, which can

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worked examples throughout. The text is supported by challenging problem exercises (and answers) to test student comprehension. Index notation used in the text simplifies manipulations in the sections on vectors and tensors. Partial

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differential equations are discussed, and special functions introduced as solutions. The book will serve for postgraduate reference worldwide, with variation for USA. Imparts the necessary mathematics for use of the techniques, with subject-related

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presenting the basic laws of many branches of physics; and the applications of group representations. The final chapters explore some partial and integral equations and derivatives of physics, as well as the concept and

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Space Operators, and
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intensive introductory treatment provides many of the advanced mathematical tools used in applications. It also supplies the theoretical background that will make most other parts of modern mathematical analysis accessible.

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three main coordinate systems, rectilinear, cylindrical, and spherical and develops the solution space for series solutions to the Sturm-Liouville equation, indicial relations, and the expansion of orthogonal functions including spherical harmonics and Fourier series, Bessel, and Spherical Bessel functions. Many examples with figures are provided

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including electrostatics, wave guides and resonant cavities, vibrations of membranes, heat flow, potential flow in fluids, and plane and spherical waves. In Part II the inhomogeneous equations are addressed where source terms are included for Poisson's equation, the wave equation, and the diffusion equation. Coverage includes

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answers and, in a separate manual
available to both students and their
teachers, complete worked solutions. The
remaining exercises have no hints,
answers or worked solutions and can be
used for unaided homework; full solutions
are available to instructors on a password-
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physics. The text contains a
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examples to illustrate the
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Intended to follow the usual introductory physics courses, this book contains many original, lucid and relevant examples from the physical sciences, problems at the ends of chapters, and boxes

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*to emphasize important
concepts to help guide
students through the
material.*

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complex analysis with
techniques that flow from an*

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discussion of eigenvalue and
boundary value problems. A
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problems then introduces*

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“special functions” of
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reader is presented with an analysis of Green's functions from both analytical and algebraic points of view. This leads to a concluding chapter on integral equations.

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