



## Mathematical Analysis of Physical Problems (Paperback)

By Philip Russell Wallace

Dover Publications Inc., United States, 2011. Paperback. Condition: New. New edition. Language: English . Brand New Book. Intended for the advanced undergraduate or beginning graduate student, this lucid work links classical and modern physics through common techniques and concepts and acquaints the reader with a variety of mathematical tools physicists use to describe and comprehend the physical universe. For the physicist, mathematics is a language, or shorthand, for constructing workable models (necessarily approximate and incomplete) of aspects of physical reality. The present text, by a noted professor of physics at McGill University, Montreal, deals in an exceptionally well-organized way with some of the crucial mathematical tools used to construct such models. Contents include: I: The Vibrating String; II. Linear Vector Spaces; III. The Potential Equation; IV: Fourier and Laplace Transforms and Their Applications; V. Propagation and Scattering of Waves; VI. Problems of Diffusion and Attenuation; VII. Probability and Stochastic Processes; VIII. Fundamental Principles of Quantum Mechanics; IX. Some Soluble Problems of Quantum Mechanics; X. Quantum Mechanics of Many-body Problems. A special helpful feature of this volume is a Prelude to each chapter, which outlines the topics with which the chapter deals. In addition to providing a guide to the organization...



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