



Partial Differential Equations for Engineers and Scientists, Second Edition

By J.N. Sharma, K. Singh

Narosa Publishing House, 2011. Softcover. Book Condition: New. 5th or later edition. Partial Differential Equations for Engineers and Scientists presents various well known mathematical techniques such as variable of separable method, integral transform techniques and Green's functions method, integral equations and numerical solutions to solve a number of mathematical problems. This comprehensive and compact text book, primarily designed for advanced undergraduate and postgraduate students in mathematics, physics and engineering is enriched with solved examples and supplemented with a variety of exercises at the end of each chapter. The knowledge of advanced calculus, Fourier series and some understanding about ordinary differential equations, finite differences as well as special functions are the prerequisites for the book. Senior undergraduate and postgraduate students offering courses in partial differential equations, researchers, scientists and engineers working in R&D organisations would find the book to be most useful. Key Features ? Integral Equations ? Numerical Solutions of Partial Differential Equations Table of Contents Preface to the Second Edition / Preface to the First Edition / First Order Partial Differential Equations / Second Order Partial Differential Equations / Elliptic Differential Equations / Parabolic Differential Equations / Hyperbolic Differential Equations / Integral Transform and Green Function Methods / Integral...



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