



ADVANCED MATHEMATICAL METHODS IN SCIENCE AND ENGINEERING

Second Edition

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partial differential equations remains a challenge The unified transform greatly facilitates this task For example two and a half centuries after Jean d Alembert formulated the wave equation and presented a solution for solving a simple problem for this equation the unified transform derives in a simple manner a generalization of the d Alembert solution valid for general boundary value problems Moreover two centuries after Joseph Fourier introduced the classical tool of the Fourier series for solving the heat equation the unified transform constructs a new solution to this ubiquitous PDE with important analytical and numerical advantages in comparison to the classical solutions The authors present the unified transform pedagogically building all the necessary background including functions of real and of complex variables and the Fourier transform illustrating the method with numerous examples Broad in scope but pedagogical in style and content the book is an introduction to powerful mathematical concepts and modern tools for students in science and engineering

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subject matter Students learn about properties of numbers methods of mathematical reasoning Euclidean geometry the fundamentals of complex number theory and techniques to deal with finite as well as infinite sums and products Dedicated chapters speak to key concepts of multivariate calculus the properties of analytic functions of a complex variable Fourier transformation methods of solving partial differential equations the Sturm Liouville theory and special functions including Euler's gamma function Riemann's zeta function and the Airy and Bessel functions Elementary matrix algebra vector calculus and probability random variables and stochastic processes are addressed Mathematical Methods in Science and Engineering is well suited for graduate level courses in optical sciences physics and engineering Masud Mansuripur holds a doctorate in electrical engineering and master's degrees in mathematics and electrical engineering from Stanford University He is a professor of optical sciences and chair of Optical Data Storage at the University of Arizona Dr Mansuripur is also the founder and president of MM Research Inc a company that develops and markets simulation software for the optics industry His professional research interests include classical electrodynamics problems associated with radiation pressure and photon momentum interaction of light and matter optical magnetic and macromolecular data storage thin film and multilayer optics magneto optical materials and information theory and digital signal processing

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