



Analytical Methods in Nonlinear Wave Theory

By Molotkov, I

Pensoft Publishers, Sofia-Moscow, 2005. Book Condition: New. This book is devoted to the development and description of analytical methods for this important branch of nonlinear physics-the theory of localized wave processes. The application of each method described in the book is illustrated by the solutions of concrete problems. The spectrum of these problems is very wide. Among them are the following: propagation and self-action of powerful wave beams in inhomogeneous media, propagation of intense acoustic beams, ultrashort pulses in nonlinear graded-index light guides, waves in media with internal structure, and long surface gravitational waves in fluids with variable depth. These topics are treated in detail. The book is addressed to specialists in theoretical physics who study nonlinear phenomena in radiophysics, acoustics, optics, plasma theory, and geophysics; to specialists in mathematical physics; as well as to postgraduate students and students in corresponding specialities. Professor Ivan A. Molotkov, Doctor of Sciences in Physics and Mathematics, laureate of a state prize in technical sciences. He is Principal Researcher and Head of a department at the Institute of Terrestrial Magnetism, Ionosphere and Radio Waves Propagation, Russian Academy of Sciences, Moscow, Russia. He is the author of more than 200 scientific papers, including 9 monographs....



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