

Waves and structures in nonlinear nondispersive media : general theory and applications to nonlinear acoustics

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Abstrak

Waves and structures in nonlinear nondispersive media : general theory and applications to nonlinear acoustics” is devoted completely to nonlinear structures. The general theory is given here in parallel with mathematical models. Many concrete examples illustrate the general analysis of Part I. Part II is devoted to applications to nonlinear acoustics, including specific nonlinear models and exact solutions, physical mechanisms of nonlinearity, sawtooth-shaped wave propagation, self-action phenomena, nonlinear resonances and engineering application (medicine, nondestructive testing, geophysics, etc.).