



# Nonlinear Acoustics

*Mark F. Hamilton, David T. Blackstock*

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**Nonlinear Acoustics** Mark F. Hamilton, David T. Blackstock

**Nonlinear Acoustics: Theory and Applications** is an introductory text on the theory and applications of nonlinear acoustics. This book develops the theory on nonlinear acoustics from physical principles. The first half of the book develops the physical concepts, mathematical models, and classical methods of solution that form the theoretical framework of nonlinear acoustics. Benchmark experiences are described and many applications are discussed in detail. The second half covers special topics and applications, both theory and experiment. The material is accessible to anyone familiar with the principles normally encountered in a basic course on the physical aspects of linear acoustics. Each chapter is written by experts in their respective fields.

## Key Features

- \* Includes basic theory and model equations developed from first principles
- \* Explains the extensive history of nonlinear acoustics and the Burger' s equation
- \* Describes the analytical, perturbation, and numerical methods of solution
- \* Introduces nonlinear waves in solids
- \* Applications included methods for
- \* Determining the nonlinearity parameter
- \* Suppression of sound by sound
- \* Acoustic levitation and streaming
- \* Sound beams and parametric arrays
- \* Statistical phenomena
- \* Four-Wave mixing
- \* Phase conjugation
- \* Biomedical effects
- \* Propagation in the atmosphere, ocean, waveguides, relaxing fluids, and bubbly liquids

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