



Acoustics in Moving Inhomogeneous Media, Second Edition

Vladimir E. Ostashev, D. Keith Wilson

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Introduces Systematic Formulations for Use in Acoustic Applications

Acoustics in Moving Inhomogeneous Media, Second Edition offers a uniquely complete and rigorous study of sound propagation and scattering in moving media with deterministic and random inhomogeneities. This study is of great importance in many fields including atmospheric and oceanic acoustics, aeroacoustics, acoustics of turbulent flows, remote sensing of the atmosphere and ocean, noise pollution in the atmosphere, and wave propagation.

Provides Sensible Explanations Using Step-by-Step Practice

The book begins by considering sound propagation through moving media with deterministic inhomogeneities such as vertical profiles of temperature and wind velocity in the atmosphere. It moves on to a new study of sound propagation and scattering in media with random inhomogeneities in adiabatic sound speed, density, and medium velocity. Then this second edition newly sets out state-of-the-art numerical methods for calculating the sound field and its statistical characteristics in moving inhomogeneous media, which is particularly useful for those working in atmospheric acoustics and studying noise pollution. Numerical codes are provided on the book's website www.crcpress.com/product/isbn/9780415564168

Covered in three parts, this second edition:

- Incorporates new results developed since the previous edition
- Rewrites and extends the text with formulations of sound propagation and scattering in random moving media
- Describes numerical methods for performing calculations involving equations from the first two parts

Acoustics in Moving Inhomogeneous Media, Second Edition serves as the basis of a graduate course in atmospheric and oceanic acoustics or as a rigorous reference work in a wide range of fields such as atmospheric and oceanic acoustics, aeroacoustics, acoustics of turbulent flows, acoustic remote sensing, noise pollution, and wave propagation in deterministic and random media.

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