



Fourier Acoustics: Sound Radiation and Nearfield Acoustical Holography

Earl G. Williams

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Intended as both a textbook and a reference, *Fourier Acoustics* develops the theory of sound radiation uniquely from the viewpoint of Fourier Analysis. This powerful perspective of sound radiation provides the reader with a comprehensive and practical understanding which will enable him or her to diagnose and solve sound and vibration problems in the 21st Century. As a result of this perspective, *Fourier Acoustics* is able to present thoroughly and simply, for the first time in book form, the theory of nearfield acoustical holography, an important technique which has revolutionised the measurement of sound. Relying little on material outside the book, *Fourier Acoustics* will be invaluable as a graduate level text as well as a reference for researchers in academia and industry.

Key Features

- * The physics of wave propagation and sound vibration in homogeneous media
- * Acoustics, such as radiation of sound, and radiation from vibrating surfaces
- * Inverse problems, such as the theory of nearfield acoustical holography
- * Mathematics of specialized functions, such as spherical harmonics

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