MATERIALS AND ACOUSTICS HANDBOOK
Edited by Michel Bruneau and Catherine Potel, Acoustic Laboratory of Maine University, Le Mans, France

Written by a group of acoustics and vibration specialists, this book studies the acoustic and vibrating phenomena that occur in diverse materials used for all kinds of purposes. The first part studies the fundamental aspects of propagation: analytical, numerical and experimental. The second part outlines industrial and medical applications.

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5. Green’s function in anisotropic environments: Cagniard de Hoop method.
6. Propagation in continuous stratification environment.
7. Linear methods for ultrasonic non-destructive control and evaluation.
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2. Equations of Motion in Dissipative Fluid.
3. Problems of Acoustics in Dissipative Fluids.
4. Basic Solutions to the Equations of Linear Propagation in Cartesian Coordinates.
5. Basic Solutions to the Equations of Linear Propagation in Cylindrical and Spherical Coordinates.
6. Integral Formalism in Linear Acoustics.
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Michel Bruneau, University of Maine, France
Thomas Scelo (translator and contributor), University of Auckland, New Zealand

The central theme of the eleven chapters is acoustic propagation in fluid media, dissipative or non-dissipative, homogeneous or non-homogeneous, infinite or limited; the emphasis being on the theoretical formulation of the problems considered rather than their practical aspects.

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