



Noise Reduction Analysis (Physics)

By Uno Ingard

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Written by a noted authority in the subject area, this book is a comprehensive study of the theory and practical application of noise reduction to numerous fields. It may be used as a reference by scientists and engineers or in a senior-undergraduate or graduate-level course. The first six chapters deal with the basic mechanisms of sound absorption by which acoustic energy is converted into heat in viscous and thermal boundaries in a sound field. The second part covers duct attenuators with a discussion of how their performance is described and measured. The main part of each chapter is planned to be descriptive, and contains numerical results that should be of direct interest for design work. Mathematical analysis is placed at the end of the chapters.

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Editorial Review

About the Author

Uno Ingard is the internationally recognized professor emeritus of physics (MIT) who was awarded the Gold Medal of the Acoustical Society of America, the Rayleigh Medal by the Institute of Acoustics (UK), the Education Award of the Institute of Noise Control Engineering, the John Ericsson Medal, American Society of Swedish Engineers and the Per Bruel Gold Medal of the American Society of Mechanical Engineers. He has written numerous books, as well as journal articles in the fields of acoustics and fluid physics that have appeared in the Journal of the Acoustical Society of America, Physics of Fluids, Physical Review, Physical Review Letters, Transactions of ASME, and Acustica (Germany); he is a fellow of the American Physical Society and was awarded membership in the prestigious National Academy of Engineering.

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