



Acoustics for Engineers

By Jens Blauert, Ning Xiang

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This book provides the material for an introductory course in engineering acoustics for students with basic knowledge in mathematics. It is based on extensive teaching experience at the university level. Under the guidance of an academic teacher it is sufficient as the sole textbook for the subject. Each chapter deals with a well defined topic and represents the material for a two-hour lecture. The 15 chapters alternate between more theoretical and more application-oriented concepts.

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Acoustics for Engineers By Jens Blauert, Ning Xiang Bibliography

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Editorial Review

Review

“This book concentrates on the classical aspects of engineering acoustics, with emphasis on physical acoustics and electroacoustics. ... Acoustics for Engineers provides comprehensive material for an introductory course in engineering acoustics for students with knowledge in engineering calculus, physics and mechanics. The text is designed for extensive teaching at the university level under the guidance of an academic teacher. ... This would be a welcome addition to an educator on the topic or to a practicing acoustic engineer.” (Chuck H. Perala, Noise Control Engineering Journal, Vol. 64 (5), September-October, 2016)

“Each of the 14 chapters concentrates on a well-defined topic and could be suitable for a two-hour lecture and thus presumably for a 14-week university course. ... more useful for engineering students in a classroom setting and others involved in self-study. ... The book provides a useful concise summary of acoustics theory and practice for classroom teaching and self-study.” (Malcolm Crocker, International Journal of Acoustics and Vibration, Vol. 17 (4), 2012)

“The aim of this book is to provide the materials for an introductory course in engineering acoustics at the university level. ... The book is relevant to a range of engineers from electro-acoustics to building acoustics. A notable feature of this book is that each chapter ... covers a range of key concepts and equations which are clearly explained. ... The book is not only useful as a textbook, but would also useful as a handbook for professional engineers and researchers.” (Jian Kang, Professional Engineering Publishing, February, 2011)

"Blauert ... have prepared a well-written comprehensive book on engineering acoustics, with an emphasis on physical acoustics and electroacoustics. ... The figures are very clear. The inclusion of example and practice problems would have been helpful. The book is a welcome addition to the acoustics literature. Summing Up: Recommended. Upper-division undergraduate, graduate, research, and professional collections." (M. G. Prasad, Choice, Vol. 46 (6), February, 2009)

"This is a wonderful book ... with 14 useful chapters, each covering a specific topic with the right amount of illustration and a well-guided presentation of the material. ... The book is very well structured and it constitutes an excellent study guide for both students and teachers. ... a wonderful book that should be considered for the libraries of either teachers or students of acoustics at the college level." (Dominique J. Chéenne, Noise Control Engineering Journal, Vol. 57 (1), 2009)

From the Back Cover

Blauert's and Xiang's *Acoustics for Engineers* provides the material for an introductory course in engineering acoustics for students with basic knowledge in mathematics. In the second, enlarged edition, the teaching aspects of the book have been substantially improved. Carefully selected examples illustrate the application of acoustic principles and problems are provided for training.

Acoustics for Engineers is designed for extensive teaching at the university level. Under the guidance of an academic teacher it is sufficient as the sole textbook for the subject. Each chapter deals with a well defined topic and represents the material for a two-hour lecture. The 15 chapters alternate between more theoretical

and more application-oriented concepts.

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