

Books

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Worship Space Acoustics: 3 Decades of Design



Authors: D.T. Bradley, E.E. Ryherd, L.M. Ronsse (Eds.)
ISBN: 978-1-4939-3096-8;
978-1-4939-3097-5 (eBook)

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2016

Publisher: Springer-Verlag
New York

- ▶ Provides detailed acoustic and architectural information for 6 worship space venues from 12 major religions directly from the acousticians who designed the spaces
- ▶ Features contributions from acoustical consulting firms and worship space designers worldwide, with spaces indexed by consulting firm and by geographic location
- ▶ Includes high-resolution photos and renderings, full-page architectural drawings, scientific data, an overview of acoustic design for worship spaces, and a glossary of common worship space acoustics terminology

This book takes the reader on a wide-ranging tour through churches, synagogues, mosques, and other worship spaces designed during the past 30 years. The book begins with a series of essays on topics ranging from the soundscape of worship spaces to ecclesiastical design at the turn of the 21st Century. Perspective pieces from an architect, audio designer, music director, and worship space owner are also included. The core of the book presents the acoustical and architectural design of a wide variety of individual worship

space venues. Acoustical consulting firms, architects, and worship space designers from across the world contributed their recent innovative works in the area of worship space acoustics. The contributions include detailed renderings and architectural drawings, as well as informative acoustic data graphs and evocative descriptions of the spaces. Filled with beautiful photography and fascinating modern design, this book is a must-read for anyone interested in religious architecture, acoustical design, or musical performance.

Reviews

“*Worship Space Acoustics: 3 Decades of Design* is a beautiful collection of recent work. This is a comprehensive compendium that far surpasses previous publications in the field in its depth, design, and information. Worship spaces of all major U.S. religions are covered. This book should be an obligatory reference for any consultant involved in church architecture and acoustics.”

-Mendel Kleiner, author of Worship Space Acoustics, Acoustics: Information and Communication Series (J. Ross Publishing 2010)

“All involved in their design will appreciate this presentation of recent rooms for religious worship.”

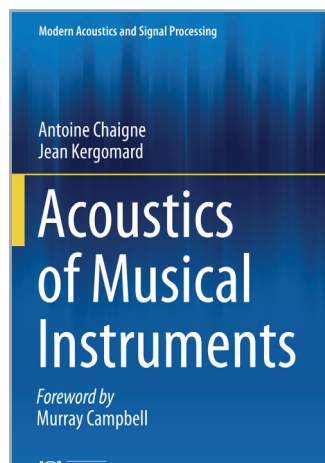
-Leo L. Beranek, author of Concert Halls and Opera Houses: Music, Acoustics, and Architecture (Springer-Verlag 2004)

“Through descriptions, photos, drawings, and acoustical data, this book provides valuable information on existing worship spaces designed during the past thirty years. This very well-edited book, including the Editors' Preface and six excellent essays from key people involved in worship space design, provides valuable information and ideas on the aesthetic, acoustic, and liturgical design of worship spaces for a number of faiths and in several countries.”

-Robert Coffeen, principle at R. C. Coffeen, Consultant in Acoustics LLC, Lawrence, Kansas

Acoustics of Musical Instruments

Series: *Modern Acoustics and Signal Processing*



Authors: A. Chaigne, J. Kergomard
ISBN: 978-1-4939-3677-9; 978-1-4939-3679-3 (eBook)
Pages: 844 p. 357 illus., 355 illus. in color.
Available formats: Hardcover: \$279.00 eBook and Mycopy: available on springer.com
Publication Date: 1st. ed. 2016; *Translation of Acoustique des instruments de*

musique, Second Edition, (C) Éditions
Publisher: Springer-Verlag New York

- ▶ Casts new light on the physics of musical instruments
- ▶ Includes up-to-date research published in the field of musical acoustics in the last fifteen years

- ▶ Outlines new methods developed in other fields such as complex modes and nonlinear normal modes
- ▶ Represents the only book on the physics of musical instruments to include practice exercises, catering to a broad audience of graduate students and researchers
- ▶ Brings the essential *Acoustique des instruments de musique* to an English audience for the first time

This book, the first English-language translation of *Acoustique des instruments de musique, Second Edition*, presents the necessary foundations for understanding the complex physical phenomena involved in musical instruments. What is the function of the labium in a flute? Which features of an instrument allow us to make a clear audible distinction between a clarinet and a trumpet? With the help of numerous examples, these questions are addressed in detail. The authors focus in particular on the significant results obtained in the field during the last fifteen years. Their goal is to show that elementary physical models can be used with benefit for various applications in sound synthesis, instrument making, and sound recording. The book is primarily addressed to graduate students and researchers; however it could also be of interest for engineers, musicians, craftsmen, and music lovers who wish to learn about the basics of musical acoustics.

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