



Acoustics of Multi-Use Performing Arts Centers

Mark Holden

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Explores the Science and Practice Of Acoustics for Arts Centers

Employing the experiences of a world-renowned acoustician celebrated for the successful design of multi-use performing arts centers, **Acoustics of Multi-Use Performing Arts Centers** examines the complexities of this venue and discusses the challenges and solutions that arise in the concept, design, construction and commissioning phases.

This book addresses the various programming needs of a multi-use performing arts center (needs that can range from symphony, opera and ballet to highly-amplified concerts and Broadway productions) and provides instruction from the planning of the initial concept to the final tuning stages.

While assuming a basic understanding of the principals of sound, construction and performance, the author includes architectural drawings drawn to scale and presents case studies with in-depth discussion of undocumented halls. He also provides a full chapter on tuning multi-use halls and offers an inside look at design options for adjustable acoustics that include stage, pit and hall design.

In addition, the book:

- Covers the fundamentals of acoustics as it relates to initial stages of multi-use hall design
- Explores the concepts of acoustics in terms of new and renovated spaces
- Defines the basic components of the building structure
- Examines floors, walls, ceilings, shells, and finishes and how they can be designed to achieve acoustic excellence
- Discusses how to use and tune adjustable acoustic systems in a multi-use hall in order to achieve acoustic excellence

Designed as a step-by-step guide to achieving outstanding acoustics in multi-use performance spaces, **Acoustics of Multi-Use Performing Arts Centers** serves students, architects, engineers, designers and acousticians.



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