



# Acoustic Absorbers and Diffusers: Theory, Design and Application

By Trevor J. Cox, Peter D'Antonio

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**Acoustic Absorbers and Diffusers: Theory, Design and Application** By  
Trevor J. Cox, Peter D'Antonio

Absorbers and diffusers are two of the main design tools for altering the acoustic conditions of rooms, semi-enclosed spaces and the outdoor environment. Their correct use is important for delivering high quality acoustics.

Unique and authoritative, this book describes how to effectively measure, model, design and apply diffusers and absorbers. It is a resource for new and experienced acousticians, seeking an understanding of the evolution, characteristics and application of modern diffusers. Absorption is a more established technology and so the book blends traditional designs with modern developments. The book covers practical and theoretical aspects of absorbers and diffusers and is well illustrated with examples of installations and case studies.

This new edition brings Acoustic Absorbers and Diffusers up-to-date with current research, practice and standards. New developments in measurement, materials, theory and practice since the first edition (published in 2004) are included. The sections on absorbers are extended to include more about noise control.

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### **Editorial Review**

#### **Review**

**‘The book succeeds by confirming that absorption and diffusion are common to all surfaces and all materials. Highly recommended.’ – *Noise Control Engineering Journal***

#### **About the Author**

Trevor Cox is Professor of Acoustics at Salford University.

Peter D'Antonio is CEO of RPG Diffusor Systems Inc.

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