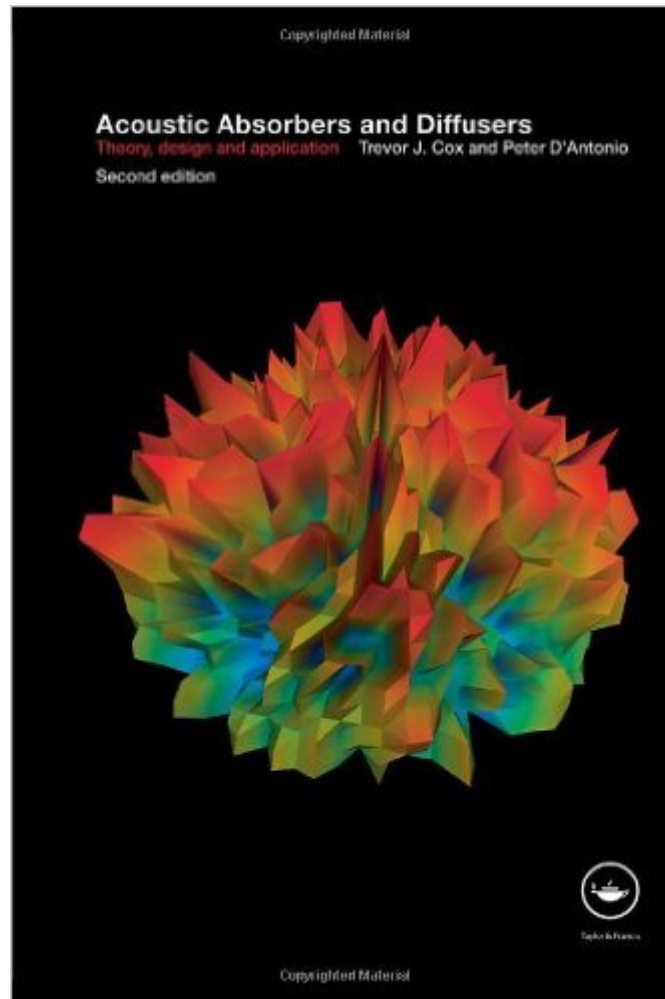


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# Acoustic Absorbers And Diffusers: Theory, Design And Application



## Synopsis

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.

## Book Information

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## Customer Reviews

I bought this book as part of my search for the best approach to acoustical treatment for my monitoring environment. I'm primarily working with surround film sound and need to trust what my ears are telling me. My room is fairly decent, but that doesn't mean I completely trust it. I am an engineer, (B.S.E.E., not acoustical), so by definition a lazy S.O.B.. Because of this, I would have preferred much more focus on design and application that answered all of the questions specific to my personal acoustical environment. Of course I also realize that Cox and D'Antonio probably didn't

want to write a book that was addressed specifically to me and what I personally want to know. I think they came pretty close to the next best thing. They have given some really solid, easy to understand information on the design and application of absorbers and diffusers, balanced with the underlying theory. I feel like this book left me in a really strong starting place for the practicalities of designing the absorption and diffusion I need in my acoustical space. For those questions that can't be answered by simple concepts or formulae, they've delved fairly deeply into the theory and mathematics underneath. For those like myself, who are not acoustical engineers and only want simple answers to, "How do I fix my room?", this book will give you a treasure trove of information. However be warned, it probably won't answer exactly what your room needs and the mathematics for you to figure it out on your own can get very complicated very fast. This is no fault of the authors'. Sound propagation gets very complicated very fast, thus our need for real acoustical engineers. This book is really geared toward acousticians.

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