



Special Issue Reprint

Advanced Materials Structures for Sound and Vibration Damping

www.mdpi.com/books/reprint/10443

Edited by Martin Vašina

ISBN 978-3-7258-3052-7 (Hardback) ISBN 978-3-7258-3051-0 (PDF)

This collection of cutting-edge research explores advances in vibration suppression, sound absorption, and materials optimization. Highlights include the optimization of thin-walled cylindrical shells using graded materials, innovative approaches to material damping simulation, and the integration of acoustic metamaterials for noise reduction. Studies also look at the sound absorption properties of non-woven fabrics, granular materials, and meshes, as well as improving the dynamic response of metabeton beams and cellular rubber composites. Each study combines experimental and theoretical methods to offer new insights and practical applications in the fields of structural dynamics, acoustics, and materials science.



Order Your Print Copy You can order print copies at www.mdpi.com/books/reprint/10443



MDPINBOOKS Publishing Open Access Books & Series

MDPI Books offers quality open access book publishing to promote the exchange of ideas and knowledge in a globalized world. MDPI Books encompasses all the benefits of open access – high availability and visibility, as well as wide and rapid dissemination. With MDPI Books, you can complement the digital version of your work with a high quality printed counterpart.



Open Access

Your scholarly work is accessible worldwide without any restrictions. All authors retain the copyright for their work distributed under the terms of the Creative Commons Attribution License.



Author Focus

Authors and editors profit from MDPI's over two decades of experience in open access publishing, our customized personal support throughout the entire publication process, and competitive processing charges as well as unique contributor discounts on book purchases.



High Quality & Rapid Publication

MDPI ensures a thorough review for all published items and provides a fast publication procedure. State-of-the-art research and time-sensitive topics are released with a minimum amount of delay.



ᆔ

High Visibility

Due to our global network and well-known channel partners, we ensure maximum visibility and broad dissemination. Title information of books is sent to international indexing databases and archives, such as the Directory of Open Access Books (DOAB), and the Verzeichnis Lieferbarer Bücher (VLB).

Print on Demand and Multiple Formats

MDPI Books are available for purchase and to read online at any time. Our print-on-demand service offers a sustainable, cost-effective and fast way to publish MDPI Books printed versions.

MDPI AG Grosspeteranlage 5 4052 Basel Switzerland Tel: +41 61 683 77 34 www.mdpi.com/books books@mdpi.com

