



applied sciences



Special Issue Reprint

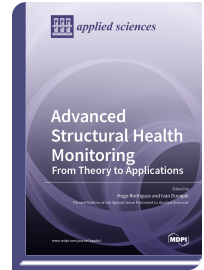
Advanced Structural Health Monitoring

www.mdpi.com/books/reprint/6024

Edited by
Hugo Rodrigues
Ivan Duvnjak

ISBN 978-3-0365-5035-0 (Hardback)

ISBN 978-3-0365-5036-7 (PDF)



Structural Health Monitoring (SHM) is a strategic tool for the monitoring and noninvasive assessment of the health state of existing structures' infrastructures and systems and can provide decision support for reducing operational costs and risks throughout their life cycle. In that sense, this Special Issue presents six research papers and one review paper that deal with the recent developments in the theoretical, computational, experimental, and practical aspects of this field. The Special Issue covers the following topics: sensors for structural health monitoring; algorithms for damage detection and characterization; structural warning systems; model-based methods for predicting structural service life; the application of SHM for various exceptional loads; the influence of environmental and operational conditions; innovative sensing solutions for SHM; cultural heritage damage detection and health monitoring; bridge damage detection and health monitoring; case study applications; and short-term monitoring systems for diagnostic load testing of structures.



Order Your Print Copy
You can order print copies at
www.mdpi.com/books/reprint/6024

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.



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.