



*materials*



*Special Issue Reprint*

## **Computational Mechanics of Structures and Materials**

[www.mdpi.com/books/reprint/8427](http://www.mdpi.com/books/reprint/8427)

Edited by  
Michele Bacciocchi  
Angelo Marcello Tarantino  
Raimondo Luciano  
Carmelo Majorana



ISBN 978-3-0365-9712-6 (Hardback)

ISBN 978-3-0365-9713-3 (PDF)

The vast number of recently published research papers on computational and numerical methods for solving various structural problems proves that this topic has great potential, and the further advancements that can be accomplished are still numerous.

This reprint contains innovative investigations dealing with accurate, reliable, and effective numerical approaches in the field of both structural mechanics and the mechanics of materials.

In particular, these studies present a numerical analysis focused on the development of finite-element or finite-element-based methods for novel problems, as well as different computational techniques involving the solution of those problems that require the development of numerical methods to obtain approximate but accurate solutions.

In any circumstance, the contributing authors have emphasized the novelty of their approaches, highlighting the improvements with respect to the existing literature. Much attention has also been dedicated to the numerical investigations of advanced and innovative materials, as well as multiscale analyses, employed in many engineering fields, such as civil, mechanical, and aerospace engineering.



Order Your Print Copy  
You can order print copies at  
[www.mdpi.com/books/reprint/8427](http://www.mdpi.com/books/reprint/8427)

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.