



*materials*



*Special Issue Reprint*

## **Mechanics of Corrugated and Composite Materials**

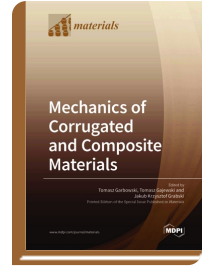
[www.mdpi.com/books/reprint/5504](http://www.mdpi.com/books/reprint/5504)

Edited by

Tomasz Garbowski

Tomasz Gajewski

Jakub Krzysztof Grabski



ISBN 978-3-0365-4314-7 (Hardback)

ISBN 978-3-0365-4313-0 (PDF)

Corrugated and composite materials can significantly outperform traditional materials. Nowadays, such materials have gained more and more attention and application not only in theoretical, experimental or numerical scientific studies but also in daily industrial problems, which require innovative solutions. The specific geometry of a corrugated layer, or the combination of two or more materials in the structures allows the mechanical properties with specific features favorable for use in a specific engineering problem to be obtained. For example, due to the specific compositions of the corrugated materials, the ratio of the load capacity to the weight of the sections is much higher than that of traditional solid sections. Therefore, such materials should be used when the weight of the structure must be optimized or the structure must have openwork geometry. Among others, the composites can be employed for a variety of purposes, for example, in corrugated boards in the packaging industry; in soft-core sandwich panels, window frames in structural engineering; in wings in commercial, civilian and military aerospace applications; in the vehicle and its equipment devices, including, panels, frames or other interior components; in fans, grating, tanks, ducts and pumps in environmental installations; in electrical engineering in switchgear, motor controls, control system components or circuit breakers; and in many more. This Special Issue “Mechanics of Corrugated and Composite Materials” addresses selected knowledge gaps and aids advance in this area.



Order Your Print Copy

You can order print copies at

[www.mdpi.com/books/reprint/5504](http://www.mdpi.com/books/reprint/5504)

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.