

Symmetry in Applied Continuous Mechanics

Guest Editors:

Prof. Dr. Marin Marin

Department of Mathematics and
Computer Science, Transilvania
University of Brasov, 500093
Brasov, Romania

Prof. Dr. Dumitru Baleanu

1. Institute of Space Sciences,
P.O. Box MG-23, RO-077125
Magurele-Bucharest, Romania
2. Department of Mathematics,
Cankaya University, Ankara
06530, Turkey

Prof. Dr. Sorin Vlas

Department of Mechanics,
"Transilvania" University of
Brasov, Brasov, Romania

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Message from the Guest Editors

Dear Colleagues,

Engineering practice requires the use of structures containing identical components or parts, useful from several points of view: less information is needed to describe the system, design is made quicker and easier, components are made faster than a complex assembly, and finally the time to achieve the structure and the cost of manufacturing decreases. Also, the subsequent maintenance of the system becomes easier and cheaper.

This Special Issue is dedicated to this kind of mechanical structure, describing the properties and methods of analysis of these structures. Discrete or continuous structures in static and dynamic cases are considered.

Theoretical models, mathematical methods, numerical analysis of the systems, such as the finite element method and experimental methods are expected to be used in the researches. Machine building, automotive, aerospace and civil engineering are the main areas in which such applications appear, but they are found in most engineering fields.





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Editor-in-Chief

Prof. Dr. Sergei D. Odintsov

1. Institució Catalana de Recerca
i Estudis Avançats (ICREA),
Passeig Luis Companys, 23,
08010 Barcelona, Spain
2. Institute of Space Sciences
(ICE-CSIC), C. Can Magrans s/n,
08193 Barcelona, Spain

Message from the Editor-in-Chief

Symmetry is ultimately the most important concept in natural sciences. It is not surprising then that very basic and fundamental research achievements are related to symmetry. For instance, the Nobel Prize in Physics 1979 (Glashow, Salam, Weinberg) was received for a unified symmetry description of electromagnetic and weak interactions, while the Nobel Prize in Physics 2008 (Nambu, Kobayashi, Maskawa) was received for the discovery of the mechanism of spontaneous breaking of symmetry, including CP symmetry. Our journal is named *Symmetry* and it manifests its fundamental role in nature.

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Symmetry Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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