

Special Issue

New Developments in Guided Waves (GW) and Nondestructive Testing (NDT): Propagation, Design and Applications

Message from the Guest Editors

Guided waves in thin-walled structures have generated growing interest in the nondestructive testing field over the past several decades due to their long-distance propagation capacity, cost-effective actuating and sensing, and high sensitivity to various kinds of damage. There are two groups of wave modes in plates and shell components, that is, symmetric modes and anti-symmetric modes, which are divided according to the symmetry of particle motion. The physical properties of guided-wave propagation (i.e., multimodal, dispersive, scattering, attenuation, etc.) can advantageously be used in material characterization, nondestructive evaluation, and structural health monitoring.....The present Special Issue of *Symmetry* seeks new findings and novel developments of guided-wave-related methods and techniques. Toward this end, we welcome the submission of articles on the following topics: theoretical modeling, simulation, measurement and signal processing, and damage visualization. Articles on other relevant topics, including smart materials, acoustic sensors, and innovative applications, are also welcome.

Guest Editors

Dr. Fei Gao

Dr. Jiadong Hua

Dr. Wenhao Li

Deadline for manuscript submissions

closed (31 December 2023)



Symmetry

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 5.3



mdpi.com/si/137593

Symmetry
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
symmetry@mdpi.com

[mdpi.com/journal/
symmetry](https://mdpi.com/journal/symmetry)





Symmetry

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 5.3



[mdpi.com/journal/
symmetry](https://mdpi.com/journal/symmetry)



About the Journal

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.

Editor-in-Chief

Prof. Dr. Sergei Odintsov

1. ICREA, 08010 Barcelona, Spain

2. Institute of Space Sciences (IEEC-CSIC), C. Can Magrans s/n, 08193 Barcelona, Spain

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within SCIE (Web of Science), Scopus, CAPus / SciFinder, Inspec, Astrophysics Data System, and other databases.

Journal Rank:

JCR - Q2 (Multidisciplinary Sciences) / CiteScore - Q1 (General Mathematics)