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Structural Health Monitoring of Polymer Composites

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Message from the Guest Editors

Dear Colleagues,

Nondestructive testing (NDT) techniques are usually used for the characterization of defects arising in composite materials during manufacturing or during in-service use. NDT techniques such as ultrasonic waves, X-ray radiography, X-ray tomography, infrared thermography, and acoustic emission are the most commonly used in various industrial applications. Each of these NDT techniques has its own detection and characterization potential. Thus, depending on the damage mechanism involved, the part geometry, and the in-situ conditions of use, one technique may be preferred over another, or several techniques may be combined in order to improve the diagnosis of the damage state of composite structures and to allow a reliable monitoring of the material's or component's structural health in view of in-service performance assessment and residual durability prognosis.

This Special Issue welcomes papers on the latest advances and developments in nondestructive detection, characterization, and health monitoring of structural composite materials and composite structures.

Dr. Salim Chaki

Prof. Dr. Patricia Krawczak

Guest Editors

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Message from the Editorial Board

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