



Research and Modeling of Materials Fatigue and Fracture

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Message from the Guest Editor

Dear Colleagues,

The cracking and destruction of composite materials with a brittle or quasi-brittle matrix, both man-made (such as concrete), or natural, which could include rock mass, is a very common problem to be solved in the design of modern, complex engineering structures. The operational safety of constructions very often depends on the correctness of forecasts regarding the value of destructive loads, the extent of damage zones, and the shape of propagating cracks. These types of issues include, for example, fixing anchors in concrete (civil engineering) or in rock mass (mining engineering). The certainty of fixing infrastructure elements in engineering structures made of concrete and in rock mass is one of the basic problems that should be solved in these cases. This aspect is of particular interest to researchers in civil engineering and mining.

This Special Issue will present the results of experimental research and analyses carried out by analytical methods and numerical simulation methods.

Prof. Dr. Józef Jonak
Guest Editor





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Message from the Editor-in-Chief

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