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Fatigue Strength of Machines and Systems

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Message from the Guest Editors

Dear Colleagues,

The fatigue properties were investigated since XIX ages. Many researchers, from that time up today, tested and developed theories about it, but still occurs catastrophes caused by fatigue crack. To prevent fatigue crack different models are used. To use any of them it must be known the fatigue properties of the material, which will be used. These properties are specified by various constants. Many models have been developed to estimate the material's constants from tensile tests or hardness measures. But these methods can lead to a large error. Especially, this could be happened for new material or using new heat treatment or plastic deformation. That is why it is important to correlate the fatigue properties of metal with elements of machine or system.

We invite researchers to contribute to the Special Issue on Fatigue Strength of Machines and Systems, which is intended to present structure, mechanical and fatigue or fracture properties of materials of structure.

For more information on the Special Issue, please visit LINK

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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