

Special Issue

Probabilistic Entropy in Analysis of Composite Materials

Message from the Guest Editor

Probabilistic entropy is a generalization of the entropy known from thermodynamics and it serves as some alternative measure in uncertainty (disorder) analysis in structural mechanics. This special issue is to collect some papers related to probabilistic entropy applications and computations in the area of composite materials. These works may be related to the application of both analytical methods as well as simulation (Monte-Carlo) techniques. The papers related to the Maximum Entropy Principle or the Stochastic Finite Element Methods based upon stochastic perturbation approach, Karhunen-Loeve or polynomial chaos expansions are welcome. They may study mechanical, thermal or coupled problems in the area of widely understood random composites including also some stochastic imperfections (dislocations, cracks and interface defects). A special interest is associated with entropy fluctuations related to nonlinear deformations and vibrations or non-steady thermal phenomena in fiber-reinforced or particulate composites.

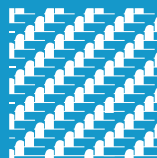
Guest Editor

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Deadline for manuscript submissions

closed (30 September 2022)



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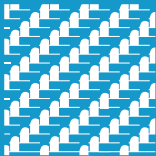
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