

Title of minisymposium:

CONTINUUM MODELS AND SIMULATIONS OF COMPOSITE AND NANO-MATERIALS, MEMS/NEMS DEVICES

Organizer(s):

Matsumoto, Toshiro (Primary Organizer)

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Abstract:

The presentations should contribute to computational models for composite and nano-materials, MEMS and NEMS devices using FEM, BEM, meshless, fast multipole methods, molecular dynamics, and mixed formulations. Effective simulation of such problems in multi-level/ multi-scale models, asymptotic solutions, novel procedures for homogenization, or methods, which do not require the homogenization of the inhomogeneous materials, multi-physics analyses in characteristic simulations of MEMS/NEMS devices are good candidates for the sessions.