

Mini Symposium MS3

Mechanics of thin films and nanostructures

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Introductory Lectures

Paper ID	Title	Authors
MS3I_11070	Mechanics of Thin Film Structures	Henrik Myhre Jensen
MS3I_11594	Mechanics of Nanostructures	Rodney S. Ruoff
MS3I_12132	A Hybrid Molecular/continuum Analysis of IFM Experiments on a Self-assembled Monolayer	Kenneth. M. Liechti, M. Wang, J. M. White, P. J. Rossky, R. M. Winter

Contributed Papers

Paper ID	Title	Authors
MS3L_10105	Thermomechanical Continuum Representation of Atomistic Deformation at Arbitrary Time and Size Scales	Min Zhou
MS3L_10699	Ratcheting-induced Wrinkling of an Elastic Film on a Metal Layer Under Cyclic Temperatures	Rui Huang, S.H. Im
MS3L_11122	Atomistic study of Size Effect in Torsion Tests of Nanowire	Akihiro Nakatani, Hiroshi Kitagawa
MS3L_11260	Solid Mechanics Methods in Nano-technologies	Elena A. Ivanova, Anton M. Krivtsov, Nikita F. Morozov, Boris Semenov
MS3L_11279	Microstructural and Atomistic Simulation for Deformation of Nano-grained Metals	Yang Wei
MS3S_11444	Energy-based Approach to Limit States in Nanostructures. Calculation of the Critical Values of Energy from First Principles	Kinga Nalepka, Pawel Nalepka, Ryszard B. Pecherski
MS3L_11474	Size-dependent Elastic State of Embedded Nano-inclusions & Quantum Dots	Pradeep Sharma, Lewis Wheeler

MS3S_11599	Fracture Criterious for Bridged Crack: from Macro to Nanoscale	Mikhail N. Perelmuter
MS3S_12181	Investigation of Wave Propagation in Multiwall	Sha Fenghuan, Zhao Longmao, Yang Guitong
MS3S_12251	Homogenisation Models of Carbon Nanocomposites Mechanical Properties	Aleksander Muc, Malgorzata Chwal
MS3S_12314	Micro - and Nano - mechanics of Carbon Nanotubes Composites	Xi - Qiao Feng, Dong - Li Shi, Y. Huang, Keh - Chih Hwang
MS3L_12384	Characterization of MEMS Materials	Jurg Dual, Gerd Simons, Jacqueline Vollmann
MS3L_12386	An Analytical Model of Oxide Rumpling as the Mechanism Leading to Failure in Thermal Barrier Coatings	Daniel S. Balint, John W. Hutchinson
MS3S_12432	Instabilities of Composite Materials Reinforced by Nano-Fibres : a Re-examination of Elastic Buckling	Raymond Parnes, Alexander Chiskis
MS3L_12486	Interfacial Adhesion of PZT Ferroelectric Thin Films Determined by Nano - Indentation Method	X. J. Zheng, Y. C. Zhou
MS3S_12627	A Cellular Automaton for Modelling Evolution of Heteroepitaxial Systems	Simon P. A. Gill
MS3L_12705	Mechanical Behaviour of Nano Grained Metals	Aman Haque, Taher Saif
MS3S_12718	Effective Thermoelastic Properties of Nanocomposites with Prescribed Random Orientation of Nanofibers	Ajit Roy, V. A. Buryachenko
MS3L_12778	Nano-scale Planar Field Projection of Atomistic Decohesion of Crystalline Solids	SeungTae Choi, Kyung-Suk Kim