

Nanomechanics Of Materials And Structures

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Preface; Summary of Group Discussions; Nano Mechanics/Materials Research, by - Ken P.Chong; An ab-initio study of mechanical behavior for (MO) Nanorods, by X. Song, Q. Ge and S. C. Yen; Phase Field Modeling of Solidification and Melting of a Confined Nanoparticle, by J. Slutsker, A. L.Roytburd, G. B. McFadden, and A.Warren; Friction-Induced Nucleation of Nanocrystals, by S. Guruzu, G. Xu, and H. Liang; Modeling of Carbon Nanotubes and Their Composites, by Chunyu Li and Tsu-Wei Chou; On the Tensile Strength of a Solid Nanowire, by Tze-jeer Chuang; Fracture Nucleation in Single-Wall Carbon Nanotubes, by H. Jiang, Y. Huang, P. Zhang and K. C. Hwang; Multiscale Modeling of a Germanium Quantum Dot in Silicon, by V.K. Tewary and D.T. Read; Nanomechanics of Biological Single Crystals, by Joanna Aizenberg; Nano/Micro Fluidic Systems: Design, Characterization, and Biomedical Applications, by Fan-Gang Tseng; Mechanical Characterization of a Single Nanofiber: Experimental Techniques, by E.P.S. Tan and C.T. Lim; Atomistic studies of Flaw Tolerant Nanoscale Structural Links in Biological Materials: Nature's principle of material design, by Markus J. Buehler and Huajian Gao; Towards the Integration of Nano/Micro Devices Using MEMS Technology, by Weileun Fang, Jerwei Hsieh, and Hung-Yi Lin; Atomic Scale Mechanisms of Stress Production in Elastomers, by A.F. Bower and J.H. Weiner; Dynamic Indentation of Polymers Using the Atomic Force Microscope, by H. Y. Hou, N. K. Chang and S. H. Chang; Fabrication and Simulation of Nanostructures on Silicon by Laser Assisted Direct Imprint Technique, by F-B Hsiao, Y-C Lee, C-P Liu, C-H Chuang, C-P Jen, D-B Wang, and C-Y.Lin; Structure and Stress Evolution due to Medium Energy Ion Bombardment of Silicon, by N. Kalyanasundaram, M. C. Moore, J. B. Freund, and H. T. Johnson; Mechanics of Nanostructures, by R. Ruoff and P. Pugno; Residual Stresses in Nano-Film/Substrate Systems, by Sanboh Lee; Nanomechanics of Crack Front Mobility, by Ting Zhu, Ju Li and Sidney Yip; Finite Temperature Coupled Atomistic/Continuum Discrete Dislocation Dynamics Simulation of Nanoindentation, by - Behrouz Shiari and Ronald E. Miller; Static Atomistic Simulations of Nanoindentation and Determination of Nanohardness, by Yeau-Ren Jeng and Chung-Ming Tan; Electric Field-Directed Patterning of Molecules on a Solid Surface, by W. Hong and Z. Suo; Dynamics of Dislocations in Thin Colloidal Crystals, by P.

Schall, I. Cohen, D. A. Weitz, and F. Spaepen; Mesoscopic Length Scales for Deformed Nanostructures, by W.M. Mook, M.D. Chambers, C.R. Perrey, C.B.Carter, R.E. Miller, W.A. Curtin and W.W. Gerberich; Rough Surface Plasticity and Adhesion across Length Scales, by Yan-Fei Gao and Allan F. Bower; Modeling the Effect of Texture on the Deformation Mechanisms of Nanocrystalline Materials at the Atomistic Scale, by M. J. Catura and T. G. Nieh; Modeling the Tribochemical Aspects of Friction and Gradual Wear of DEC Films, by Feodor M. Borodich, Chad S. Korach, and Leon M. Keer; Subject Index; Author Index. EAN/ISBN : 9781402039515 Publisher(s): Springer Netherlands Discussed keywords: Nanomechanik Format: ePub/PDF Author(s): Chuang, T. -J. - Anderson, P. M. - Wu, M. -K.

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