

Pre-nominated Session SM10

Functionally graded materials

Co-Chair(s): R. Batra (USA)
G.H. Paulino (USA)

Paper ID	Title	Authors
SM10L_10045	Dynamic Stability of Functionally Graded Plate Under In - Plane Compression	Andrzej Tylikowski
SM10L_10135	Micromechanics - Based Elastic Model for Functionally Graded Materials with Particle Interactions	Lizhi Sun, Huiming Yin, Glaucio Paulino
SM10S_10364	A State Space Formalism for Piezothermoelasticity of Functionally Graded Materials	Jiann - Quo Tarn, Hsi - Hung Chang
SM10S_10501	Conservation Laws of Functionally Graded Materials in Elastodynamics	Shi Weichen
SM10L_10836	Transient Dynamic Crack Analysis in FGMs Under Impact Loading	Chuanzeng Zhang, Jan Sladek, Vladimir Sladek
SM10L_11177	Asymptotic Ananlysis of a Stationary Crack in a Ductile Functionally Graded Material	Dhirendra V. Kubair, Philippe H. Geubelle, John Lambros
SM10S_11551	The Plane Crack Problem in a Functionally Graded Orthotropic Strip	Linzhi Wu, Licheng Guo, Li Ma
SM10S_11572	Frictional Slip Between a Gradient Non - Homogeneous Layer and a Half - Space in Anti - Plane Elastic Wawe Field	Gai Bing - Zheng
SM10L_11592	Wave Propagation in Functionally Graded Materials	Arkadi Berezovski, Juri Engelbrecht, Gerard A. Maugin
SM10S_11671	Adaptive Modelling of Microscopic Heterogeneous Medium Undergoing Large Deformation	Eduard Rohan, Vladimir Lukes
SM10L_12093	Actuator and Sensor Modelling for Laminated Piezoelectric Plates	Amancio Fernandes, Joel Pouget
SM10L_12273	Complex - Variable Methods Applied to Functionally - Graded Elastic Plate Problems	Arthur H. England, Anthony J. M. Spencer

SM10S_12461	Study of Two - Dimensional Elasticity on FGM	Takemasa Seto, Tetsu Nishimura
SM10S_12465	Three - Dimensional Transient Thermoelastic Analysis of Orthotropic Functionally Graded Rectangular Plate	Yoshihiro Ootao, Yoshinobu Tanigawa
SM10L_12594	Adiabatic Shear Bands in Functionally Graded Materials	R. C. Batra, B. M. Love
SM10S_12664	Nonlocal Effects in Micromechanics of Functionally Graded Composites of Random Structure	Gregory Schoeppner, Valeriy Buryachenko
SM10L_12665	Topology Optimization Applied to the Design of Functionally Graded Material (FGM) Structures	Emilio Carlos Nelli Silva, Glaucio H. Paulino
SM10S_12968	First Principles - Based Equations of State for Functionally Graded Materials	S. Hanagud, Xia Lu
SM10L_12978	Design of FGM Bimorph Piezo - Actuators	Minoru Taya
SM10L_13018	Thermoelastic Analysis of Functionally Graded Materials Submitted to Shocks	Carlos Augusto Vieira Carneiro, Fernando Alves Rochinha, Lavinia S. A. Borges