

Pre-nominated Session SM13

Mechanics of composites

Co-Chair(s): **S. Adali (South Africa)**
 N.A. Fleck (UK)

Paper ID	Title	Authors
SM13S_10189	Numerical Evaluation of Mixed Mode Delamination in a U.D. Glass/Epoxy Composite in 2D and 3D States	M. R. Khoshnavan, Arash Yourdkhani
SM13L_10244	Interfacial Properties of Nanowire - Polymer Composites	Ryszard Pyrz
SM13L_10347	Plane Harmonic Waves in a Microperiodic Layered Thermoelastic Solid Revisited	Jozef Ignaczak
SM13L_10412	Damage Progression by the Element - Failure Method (EFM) and Strain Invariant Failure Theory (SIFT)	Tong - Earn Tay, V. B. C. Tan, S. H. N. Tan
SM13S_10483	Effective Properties of Solids Containing Randomly Distributed Multi-Phase Spherical Particles	Hossein M. Shodja, Farshid Roumi
SM13S_10555	Porous Anisotropic Composites under Microfractures	Lidiya Nazarenko
SM13L_10667	Reissner-Mindlin-Von Karman Type Plate Modle for Postbuckling Analysis of Laminated Composite Structures	Petri Kere, Mikko Lyly
SM13S_10745	Three-Dimensional Transmission in Plane Layered Elastic Composites	Kanmi Aderogba
SM13L_11014	Aspects of the Mechanical Response of Randomly Reinforced, Chopped Fiber Strand, Polymeric Composites	Y. Jack Weitsman, A. Ionita
SM13L_11080	Computational Modeling of Deformation and Damage in Particle-Reinforced Composites	Javier Segurado, Javier LLorca
SM13L_11162	Elastic Interaction of Multiple Delaminations in Laminated Structures	Martin G. Andrews, Roberta Massabo, Brian N. Cox
SM13S_11176	Overall Properties of Periodic Biocomposites	Lucia Doval-Montes, Eduardo Lopez-Lopez, Federico J. Sabina, Julian Bravo-Castillero, Raul Guinovart-Diaz, Reinaldo Rodriguez-Ramos

SM13L_11180	Damage Tolerance of Composite Structures with Thermal Shield	Christophe Bouvet, Sandrine Petit, Alain Bergerot, Jean-Jacques Barrau
SM13L_11387	Can it Be Made? Predicting the Formability of Textile Composite Components	Mike J. Clifford, P. Harrison, A. C. Long
SM13S_11426	Electroelstic Fields Concentrations and Polarization Switching by Circular Electrodes in Piezoelectric Disk Composites	Fumio Narita, Yasuhide Shindo, Masaru Karaiwa
SM13S_11457	Fuzzy Set Approach to Modelling Composite Mechanical Properties	Aleksander Muc
SM13S_11507	Evaluation of Linearization Procedures Sustaining Nonlinear Homogenisation Theories	Amna Rekik, Michel Bornert, Andre Zaoui, Francois Auslender
SM13L_11610	Three-Dimensional Thermoelastic Analalysis of Plain Weave Glass/Epoxy Composities with Cracks at Cryogenic Temperatures	Tomo Takeda, Yasuhide Shindo, Fumio Narita
SM13L_11747	Advanced Beam Model for Fiber-Bridging in Unidirectional Composite Double-Cantilever Beam Specimens	Andras Szekrenyes, Jozsef Uj
SM13L_11782	Interfacial Jump Conditions in Strain-Gradient Plasticity and Relations of Hall-Petch Type	K. Aifantis, John R. Willis
SM13L_11794	A Study of Particle Debonding with Anisotropy	Brian Nyvang Legarth
SM13L_11805	Nonlinear Affine Extension of the Three-Phase Sphere Model	Emmanuelle Chabert, Michel Bornert, Andre Zaoui
SM13S_11895	H-Convergence and Multilayering in Piezocomposites	Antoni Galka, Barbara Gambin, Jozef J. Telega, Stanislaw Tokarzewski
SM13L_12141	On the Role of Inter-Granular Layers in Polycrystalline Ceramics	Tomasz Sadowski, Stephen Hardy, Eligiusz Postek
SM13L_12148	A Homogenization Based Laminated Beam Theory	Jorn S. Hansen, Sergio F. M. de Almeida

SM13L_12214	Compressive Strength of Fiber Composite with Porosity	Ulrik Borg
SM13S_12242	Thermal Residual Stress in Al ₂ O ₃ /SiCnano Ceramic Composites Measured by Nanoindenter	Zhong Ling
SM13L_12321	Composites with Planar Random Fiber Arrangements	Dominik Duschlbauer, Helmut J. Boehm, Heinz E. Pettermann
SM13S_12489	Inclusion Dispersion: Effects on Stress and Effective Properties	Jan Schjoedt - Thomsen, Ryszard Pyrz
SM13L_12496	Thermal Fatigue of MMC Induced by Laser Heating	Shiguo G. Long, Y. C. Zhou
SM13S_12531	Thermo-Mechanical Stability and Vibration Analysis of Composite Shells	J. Girish, Lingadahally S. Ramachandra
SM13S_12560	New Trends in Optimal Design of Composite Materials	Aleksander Muc, Marcin Trzebicki
SM13L_12576	An Anisotropic Damage Model for the Prediction of the Degradation Behaviour of Novel Textile Reinforced Composites	Werner Hufenbach, Robert Boehm, Albert Langkamp
SM13S_12588	Asymptotic Study of Imperfect Interfacial Bonding in Periodic Composite Materials	Igor V. Andrianov, Vladyslav V. Danishevs'kyi, Dieter Weichert
SM13S_12667	T-Inclusion Regions for the Effective Transport Coefficients of Two-Phase Media	Stanislaw Tokarzewski, Antoni Galka, Barbara Gambin, Jozef J. Telega
SM13L_12680	Crack Tunneling in Laminates	Akke S. J. Suiker, Norman A. Fleck
SM13S_12732	Macroscopic Relations for Nonlinear Thermodiffusion in Heterogeneous Elastic Medium	Antoni A. Galka, Jozef J. Telega, Ryszard Wojnar
SM13L_12818	Study of the Usability of Various Cruciform Geometries for Biaxial Testing of Fiber Reinforced Composites	Arwen Smits, D. Van Hemelrijck, T. Philippidis, A. M. van Wingerde, A. Cardon
SM13S_12970	Incremental Effective Constitutive Law for Composite Material in the Form of Artificial Neural Network	Marek Lefik

