

Pre-nominated Session SM9

Fracture and crack mechanics

Co-Chair(s): D. Gross (Germany)
 A. Needleman (USA)

Paper ID	Title	Authors
SM9S_10250	A Fractal Cohesive Crack Model	Michael P. Wnuk
SM9S_10334	Influence of Stress State on Crack - Tip Driving Force	Daniel Kujawski
SM9L_10338	Branching Instability of Brittle Fracture	M. Adda - Bedia
SM9S_10419	Size Effect in Tensile Fracture of Concrete - A Study Based on Lattice Model Applied to CT - Specimen	Remalli Vidya Sagar, B. K. Raghu Prasad
SM9S_10429	Numerical and Experimental Study of the Plastic Zone in the Vicinity of the Crack Tip by the Optical Caustics Method	Octavian Pop, Valery Valle, Mario Cottron
SM9S_10579	Thermoelastic Problems for a Bimaterial with Defects/singularities	Vera E. Petrova
SM9S_10646	Dynamic Crack Analysis Under Thermal Shock	Parissa Hosseini - Tehrani, Alireza Hosseini - Godarzi
SM9L_10676	Experimental Investigation on Concrete Shear Crack Extension	Huijian Li, Shengwang Hao
SM9S_10824	Effect of Inter - and Intralaminar Damage on the Compressive Fracture of Hyperelastic Materials	Igor A. Guz, Maria Kashtalyan, Klaus P. Herrmann
SM9L_10864	Experimental and Numerical Crack Growth in a Special Geometry	Liviu Marsavina, Dan M. Constantinescu
SM9S_10897	Elastodynamics Problems in Domains with Edges	S. I. Matioukevitch, N. F. Morozov, B. A. Plamenevskii
SM9L_10910	3D Microstructural Effects on Plane Strain Ductile Crack Growth	Alan Needleman, Viggo Tvergaard
SM9S_11045	Weight Functions for Cracks in Piezoelectrics	Andreas Ricoeur, Meinhard Kuna

SM9S_11087	Three - Dimensional Correction of Two - Dimensional Fracture Criteria Using a Constraint Factor	Rimantas Kacianauskas, Vladislav Zarnovskij, Eugenius Stupak
SM9S_11195	Elastodynamic Contact Problem for Two Penny - Shaped Cracks	Oleksandr V. Menshykov
SM9L_11321	Numerical Approach for Dynamic Fracture in Piezoelectric Solids	Jose Dominguez, Andres Saez, Felipe Garcia - Sanchez
SM9L_11425	Finite Element Analysis of Fracture and Polarization Switching Behavior in Modified Small Punch Testing of Piezoelectric Ceramics	Yasuhide Shindo, Fumio Narita, Yasuyo Magara, Masaru Karaiwa
SM9L_11484	On Crack Assessment at Bimaterial Interfaces	Axel Mueller, Joerg Hohe, Wilfried Becker
SM9S_11502	Analysis of Tensile Testing of a Soft Ferromagnetic Elastic Strip Containing a Central Crack under a Magnetci Field	Daisuke Sekiya, Yasuhide Shindo, Fumio Narita, Katsumi Horiguchi
SM9S_11568	A Quasi - Spherical Coordinate System and Its Application to the Determination of Vertex - Type Singularities	Hai - Tao Wang, K. Y. Sze
SM9L_11626	Failure Model of Protective Coatings	Asher A. Rubinstein, Yaliang Tang
SM9S_11856	Modeling of Environment Assisted Delamination I. Quasistatic Case	Alla V. Balueva
SM9S_11910	The Influence of Remote Stresses on the Near Crack Tip Stress Field	Ewa Turska, Krzysztof Wisniewski
SM9S_11934	The Elasto-Plastic Thin Film/Substrate Via Buckle-Driven Delamination and Crack Growth	Qunyang Li, Shouwen Yu
SM9S_11980	On 3-D Thermoelastic Problems of Interfacial Cracks in a Periodic Stratified Space	Andrzej Kaczynski, Stanislaw J. Matysiak
SM9L_12044	Automatic 3D Crack Growth Simulation Based on Boundary Elements	Karsten Kolk, Guenther Kuhn

SM9L_12171	Massively Parallel Simulations of Dynamic Fracture and Fragmentation of Brittle Solids	Irene Arias, Jaroslaw Knap, Anna Pandolfi, Michael Ortiz
SM9S_12174	the Shield Effect of Phase Transformation Stress Field at Crack Tip	Ping Wang, Zhenguo Tian, Zhiren Wang, Lijuan Zheng, Xiangzhong Bai
SM9S_12249	Contact Zone Approach to the Analysis of Interface Cracks in Thermomechanically Loaded Piezoelectric Bimaterials	Klaus P. Herrmann, Volodymyr V. Loboda
SM9L_12378	Interaction of Propagating Cracks and Shear Waves	Daniel Bonamy, Krishnaswamy Ravi-Chandar
SM9L_12393	Disorder of the Front of a Tensile Tunnel - Crack Propagating in Some Inhomogeneous Medium	Jea - Baptiste Leblond
SM9S_12492	Creep Deformation in Thermal Barrier Coatings due to the Effect of Thermal Growth Oxidation and Temperature Gradient	Y. C. Zhou, D. Wu
SM9S_12798	Numerical Analysis of Strain Hardening and Pressure Sensitivity Effects on J - Integral	Abdulhamid Al - Abduljabbar
SM9L_12921	Incremental Minimization Principles in Fracture and Damage Mechanics	G. A. Francfort, J. J. Marigo