

Pre-nominated Session SM18

Plasticity and viscoplasticity

Co-Chair(s): **E. van der Giessen (Netherlands)**
 P. Perzyna (Poland)

Paper ID	Title	Authors
SM18L_10064	Metal Forming Processes Conditioned by Cyclic Loading. A New Challenge for the Theory of Plasticity	Zenon Mroz, Ryszard B. Pecherski
SM18S_10383	Quasi Rate - Independent Viscoplastic fcc - Polycrystals	Milan Micunovic
SM18L_10393	Physically Based Thermomechanical Modeling of Metals over a Wide Range of Strain Rates and Temperatures	George Z. Voyiadjis, Farid H. Abed
SM18L_10652	Plastic Properties Identification With Plural Sharp Indenters	Norimasa Chiba, Nagahisa Ogasawara
SM18S_10729	A Viscoplastic Model for Thermoplastic Polymers Under Uniaxial Monotonic and Cyclic Straining	Ghorbel Elhem
SM18S_10734	Advanced Thermo - Visco - Plastic Constitutive Relations for Direct Applications in Numerical Analyses	Alexis Rusinek, Janusz R. Klepaczko, Ramon Zaera
SM18L_10797	Calibration of Anisotropic Elastic - Plastic Models for Thin Layers and Foils in Microtechnologies: Two Novel Techniques	Massimiliano Bocciarelli, Gabriella Bolzon, Giulio Maier
SM18L_10955	Simulation of Dynamic Polycrystalline Thermoelastoviscoplasticity and Fracture	John D. Clayton
SM18L_11005	Assessing Different Self - Consistent Approximations by Comparison with Full - Field Simulations in Viscoplastic Polycrystals	Ricardo A. Lebensohn, Yi Liu, Pedro Ponte Castaneda
SM18L_11110	Three - Dimensional Modelling of Thermo - Elasto / Viscoplastic Solids Containing Adiabatic Shear Bands	Patrice Longere, Andre Dragon, Herve Trumel, Thibaut de Resseguier, Xavier Deprince
SM18S_11185	Energy Storage Rate in Non - Homogeneous Deformation	Wiera Oliferuk, Michal Maj
SM18S_11295	Dynamic Behavior of Many - Dislocation Systems in Silicon	Kazuwo Imai, Shigeru Fujinuma, Michio Kurashige

SM18S_11309	The Eshelby Problem for Elastic - Viscoplastic Materials	Sebastien Mercier, Alain Molinari, Nicolas Jacques
SM18S_11344	Multiscale Modeling of the Structure - Property Relationship for Semicrystalline Materials	J. A. W. van Dommelen, W. A. M. Brekelmans, F. P. T. Baaijens
SM18S_11350	Modeling of Viscoplastic Constitutive Equation for Polymers by Taking Into Account Strain Recovery	Mamoru Mizuno, Yukio Sanomura
SM18L_11410	Thickness Dependent Yield Strength of Thin Films	Peter Gudmundson, Per Fredriksson
SM18S_11498	Yield Surfaces Using an Extension of the Regularized Schmid Law to Polycrystalline Materials	Stéphane Berbenni, Patrick Franciosi
SM18L_11790	Size - Effects in Void Growth	Christian F. Niordson
SM18L_11820	On the Accounting of Dislocation Internal Stress in Continuum Plasticity	Amit Acharya, Anish Roy
SM18S_11930	Steady - Flow of a Non - Homogeneous Bingham Material Over a Wedge	Oana Cazacu, N. D. Cristescu
SM18S_11953	Modelling of Elastic - Plastic or Viscoplastic Materials Sensitive to the Type of Processes - Different Approaches	Anguel I. Baltov, Georgi B. Stoychev
SM18L_11963	Strain Gradient Crystal plasticity Incorporating Grain Boundary Effects	Marc G. D. Geers, L. P. Evers, W. A. M. Brekelmans
SM18S_11975	Metal Forming and Texture Development Modelling	Wiktoria L. Gambin
SM18L_12058	Limit and Shakedown Analysis with Decohesive Effects	Dieter Weichert, Abdelkader Hachemi
SM18L_12339	A Constitutive Law for Glassy Polymers and Blends	F. Zairi, K. Woznica, M. Nait Abdelaziz, J. M. Gloaguen
SM18L_12469	Development and Identification of a Probabilistic Two - Scale Model for High Cycle Fatigue Prediction	Cedric Doudard, Sylvain Calloch, Philippe Cugy, Andre Galtier, Francois Hild
SM18S_12549	Modeling the Crystallographic Texture Evolution Based on the Maximum Entropy Method	T. Boehlke, A. Bertram

SM18S_12634 An Elastoplastic Model for Prediction of Permanent Absamad El Abd, Pierre Hornych,
Deformations of Unbound Granular Pavement Layers Denys Breysse, Alain Denis,
Cyril Chazallon

SM18S_12697 Intragranular Kinematic Hardening Modelling and Maxime Sauzay
Validation

SM18L_13038 Mean Field Homogenization of Elasto - (Visco) Plastic Issam Doghri, Olivier Pierard
Composites: Formulation for Time - Dependent and
Independent Behaviors
