Review articles

Structural models of bioactive glasses from molecular dynamics simulations
A. Tilocca

Research articles

Deterministic–stochastic approach to compartment fire modelling
V. Bertola & E. Cafaro

Geometry- and velocity-constrained cohesive zones and mixed-mode fracture/adhesion
energy of interfaces with periodic cohesive interactions
B. Chen, P. Wu & H. Gao

Lateral excitation of bridges by balancing pedestrians
J. H. G. Macdonald

A new integral property of inertial waves in rotating fluid spheres
X. Liao & K. Zhang

Solitonen: complex networks of interacting fields
I. Kaminer, M. Segev, A. M. Bruckstein & Y. C. Eldar

Informed traders
D. C. Brody, M. H. A. Davis, R. L. Friedman & L. P. Hughston

On feasible regions of lamination parameters for lay-up optimization of laminated
composites
M. W. Bloomfield, C. G. Diaconu & P. M. Weaver

Predicting crystal growth by spiral motion
R. C. Snyder & M. F. Doherty

In the light of time
P. Tuisku, T. K. Permu & A. Annila

Beam equations for multi-walled carbon nanotubes derived from Flügge shell theory
T. Usuki & K. Yogo

Disambiguating the SI notation would guarantee its correct parsing
M. P. Foster

Analytical determination of parabolic points on slowness surface and swallowtail points
on wave surface of cubic crystals
L. Wang

Scattering of anti-plane shear waves by an interface crack between two bonded
dissimilar functionally graded piezoelectric materials
B. M. Singh, J. Jakob, R. S. Dhalval & J. Vibek

Mixing in internally stirred flows
P. N. Shankar & R. Kidambi

A novel generalization of Clifford's classical point-circle configuration. Geometric
interpretation of the quaternionic discrete Schwarzian Kadomtsev–Petviashvili equation
W. K. Schief & B. G. Konopelchenko

A thermoelastic junction problem in a thin-walled structure: asymptotic analysis
V. V. Zalipaev, I. S. Jones & A. B. Movchan

Vibration analysis of submerged rectangular microplates with distributed mass loading
Z. Wu, X. Ma, P. N. Brett & J. Xu