

SOLIDS and STRUCTURES

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Keywords

International Journal of Solids and Structures has traditionally contained author indexes and contents lists at the end of each year. Useful though these are, we believe that they would be enhanced by the addition of indexes compiled from keywords associated with each paper. This would allow readers to identify groups of papers in similar areas.

In an electronic environment, the need for a uniform keyword system is particularly important to facilitate effective information search and retrieval. To ensure a consistent approach we have prepared a list of **preferred** keywords for use. This list is not exhaustive and should be used as a guideline. If you feel there are serious omissions please do not hesitate to contact the Editor-in-Chief or Publisher to ensure that new terms are added.

Absorption Acoustic Adaptive structures Adhesion Ageing of materials Algorithms Alloy Anisotropic Arches Asymptotic Axially Axisymmetric **Ballistics** Bar Beam Bending Biaxial Bifurcation Biharmonic equation **Bimaterial Biomechanics** Bonded Bone Boundary conditions Boundary element Boundary value Branching Brittle

Buckling Cables Cantilever Ceramics Chains Chaos Coastal structures Collocation Column Compaction Complex variable Compliance composite Composite materials Compression Computational conical Concentration Concrete Consolidation Constitutive Contact Containment structures Continuum Control Converging Cosserat Crack Crack arrest Crack-tip

Creep Cross-section Cross-ply Crystals Cyclic Cylinder Damage criteria Damping Debonding Decav Decomposition Deformable bodies Delamination Design Diffraction Dipole Discontinuities Disk Dislocations Dispersion Displacement Diverging Dynamic Eigenvalues Elastic Elastic-plastic Elasticity Elastoelasticity

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Elastomers Elastoplasticity Energy methods Energy release rate Euler-Bernoulli beam Experimental techniques Explosions Failure Fastening Fatigue Fibre reinforced Finite deformation Finite differences Finite element Flexure Flow-rule Flutter Foam structures Foundation Fractals Fracture Frames Free edge Friction Frictional Functionally graded Galerkin Geomechanics Granular media Green function Ground structures Half-space Hardening Higher order Homogeneous Homogenization Honeycomb structures Hybrid methods Impact Imperfections Impulsive loading Inclusions Indentation Inertia Instability Integral equation Interaction Interface Interlaminar Internal variable Invariant Inverse problem

Isotropic Joining Kinematic Kinetics Kirchhoff plate Laminated Lagrangian multiplier Large deflection Large deformation Layers Least squares Light-weight Limit load Limit analysis Limit design Linear Loading Machine elements Magnetoelasticity Materials Materials processing Matrix Mechanics Mechanical property Membrane Microbuckling Micropolar Micro-mechanics Microstructural Mixed variational Mobile structures Mode Modelling Modulus Motion Moving Non-associated Non-circular Non-destructive testing Non-homogeneous media Nonlinear Nonsymmetric nucleation Nonuniform Notch Numerical methods Ocean structures Optimization Optimum shape Orthotropic Parametrization Particulate media Penalty method

Perturbation Piezocomposite Piezoelastic Piezoelectric Plate Plasticity Plastics Polymers Porous media Post buckling Propagation Quantifier Random waves Rayleigh quotient Reflection Refraction Reissner-Mindlin plate Relaxation Reliability Residual stress Reticulated rod Rigid bodies Rings Robotics Rock mechanics Rod Rolling Ropes Rotating Rubbers Rupture Saint-Venant's principle Sandwich materials Scattering Sensitivity Shafts Shakedown Shallow Shape-memory Shear band Shear deformation Shear lag Shell Simple shear Simply-supported Singularities Snap-through Softening Soft tissue Soil Soil mechanics Solids

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Solid-fluid interaction Spherical Springs Stability Stiffened Stiffness Stochastic Strain Strain-dependent Strain-rate Stress Stress concentrations Stress intensity Stress-strain Strings Strip Structures Successive approximations Surface waves

Symmetric Tapered Tensile Tension Testing Thermal stress Thermodynamics of solids Thermoelastic Thermomechanical Thermoplasticity Thick Thick-walled Thin Time-dependent Timoshenko beam Torsion Torsional warping Toughness Traction

Transient Trusses Underconstrained Uniaxial Unidirectional Uniqueness theorems Variable loading Variational method Vibration Viscoelastic Viscoplastic Voids Warping Wave Wear Wires Yield