



PERGAMON

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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	Buckling	Creep
Acoustic	Cables	Cross-section
Adaptive structures	Cantilever	Cross-ply
Adhesion	Ceramics	Crystals
Ageing of materials	Chains	Cyclic
Algorithms	Chaos	Cylinder
Alloy	Coastal structures	Damage criteria
Anisotropic	Collocation	Damping
Arches	Column	Debonding
Asymptotic	Compaction	Decay
Axially	Complex variable	Decomposition
Axisymmetric	Compliance composite	Deformable bodies
Ballistics	Composite materials	Delamination
Bar	Compression	Design
Beam	Computational conical	Diffraction
Bending	Concentration	Dipole
Biaxial	Concrete	Discontinuities
Bifurcation	Consolidation	Disk
Biharmonic equation	Constitutive	Dislocations
Bimaterial	Contact	Dispersion
Biomechanics	Containment structures	Displacement
Bonded	Continuum	Diverging
Bone	Control	Dynamic
Boundary conditions	Converging	Eigenvalues
Boundary element	Cosserat	Elastic
Boundary value	Crack	Elastic-plastic
Branching	Crack arrest	Elasticity
Brittle	Crack-tip	Elastoelasticity

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Elastomers	Isotropic	Perturbation
Elastoplasticity	Joining	Piezocomposite
Energy methods	Kinematic	Piezoelastic
Energy release rate	Kinetics	Piezoelectric
Euler–Bernoulli beam	Kirchhoff plate	Plate
Experimental techniques	Laminated	Plasticity
Explosions	Lagrangian multiplier	Plastics
Failure	Large deflection	Polymers
Fastening	Large deformation	Porous media
Fatigue	Layers	Post buckling
Fibre reinforced	Least squares	Propagation
Finite deformation	Light-weight	Quantifier
Finite differences	Limit load	Random waves
Finite element	Limit analysis	Rayleigh quotient
Flexure	Limit design	Reflection
Flow-rule	Linear	Refraction
Flutter	Loading	Reissner–Mindlin plate
Foam structures	Machine elements	Relaxation
Foundation	Magnetoelasticity	Reliability
Fractals	Materials	Residual stress
Fracture	Materials processing	Reticulated rod
Frames	Matrix	Rigid bodies
Free edge	Mechanics	Rings
Friction	Mechanical property	Robotics
Frictional	Membrane	Rock mechanics
Functionally graded	Microbuckling	Rod
Galerkin	Micropolar	Rolling
Geomechanics	Micro-mechanics	Ropes
Granular media	Microstructural	Rotating
Green function	Mixed variational	Rubbers
Ground structures	Mobile structures	Rupture
Half-space	Mode	Saint-Venant’s principle
Hardening	Modelling	Sandwich materials
Higher order	Modulus	Scattering
Homogeneous	Motion	Sensitivity
Homogenization	Moving	Shafts
Honeycomb structures	Non-associated	Shakedown
Hybrid methods	Non-circular	Shallow
Impact	Non-destructive testing	Shape-memory
Imperfections	Non-homogeneous media	Shear band
Impulsive loading	Nonlinear	Shear deformation
Inclusions	Nonsymmetric nucleation	Shear lag
Indentation	Nonuniform	Shell
Inertia	Notch	Simple shear
Instability	Numerical methods	Simply-supported
Integral equation	Ocean structures	Singularities
Interaction	Optimization	Snap-through
Interface	Optimum shape	Softening
Interlaminar	Orthotropic	Soft tissue
Internal variable	Parametrization	Soil
Invariant	Particulate media	Soil mechanics
Inverse problem	Penalty method	Solids

Solid–fluid interaction	Symmetric	Transient
Spherical	Tapered	Trusses
Springs	Tensile	Underconstrained
Stability	Tension	Uniaxial
Stiffened	Testing	Unidirectional
Stiffness	Thermal stress	Uniqueness theorems
Stochastic	Thermodynamics of solids	Variable loading
Strain	Thermoelastic	Variational method
Strain-dependent	Thermomechanical	Vibration
Strain-rate	Thermoplasticity	Viscoelastic
Stress	Thick	Viscoplastic
Stress concentrations	Thick-walled	Voids
Stress intensity	Thin	Warping
Stress–strain	Time-dependent	Wave
Strings	Timoshenko beam	Wear
Strip	Torsion	Wires
Structures	Torsional warping	Yield
Successive approximations	Toughness	
Surface waves	Traction	