



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	Brittle	Cosserat
Acoustic	Buckling	Crack
Adaptive structures	Buckling failure	Crack arrest
Adhesion	Cables	Crack density
Ageing of materials	Cantilever	Cracked solid
Algorithms	Cellular foams	Crack-tip
Alloy	Ceramics	Creep
Aluminium alloy	Centrifugal force	Cross-section
Analytical solutions	Chains	Cross-ply
Anisotropic	Chaos	Crystals
Annular plates	Coastal structures	Cyclic
Arches	Cohesion	Cylinder
Asymptotic	Collocation	Damage criteria
Axially	Column	Damping
Axisymmetric	Compaction	Debonding
Ballistics	Complex variable	Decay
Bar	Compliance composite	Decomposition
Beam	Composite materials	Deformable bodies
Bending	Compression	Delamination
Biaxial	Computational conical	Design
Bifurcation	Concentration	Differential geometry
Biharmonic equation	Concrete	Differential model
Bimaterial	Consolidation	Differential quadrature element method
Binder contact laws	Constitutive	Diffraction
Biomechanics	Constitutive laws	Dipole
Bonded	Contact	Discontinuities
Bone	Contact compliance	Disk
Boundary conditions	Containment structures	Dislocations
Boundary element	Continuum	Dispersion
Boundary value	Control	Displacement
Branching	Converging	Displacement–force relation

Dissimilar anisotropic materials	Honeycomb structures	Metal/piezoelectric bimetals
Diverging	Hybrid methods	Microbuckling
Dynamic	Impact	Micropolar
Eigenvalues	Imperfections	Micro-mechanics
Elastic	Impulsive loading	Microstructural
Elastic moduli	Inclusions	Mixed variational
Elastic–plastic	Indentation	Mobile structures
Elastic–plastic solids	Inertia	Mode
Elasticity	Instability	Mode shape
Elastoelasticity	Integral equation	Modelling
Elastomers	Interaction	Modulus
Elastoplasticity	Interaction behavior	Modulus and composites
Energy methods	Interface	Motion
Energy release rate	Interlaminar	Moving
Equilibrium problem	Internal variable	Non-associated
Euler–Bernoulli beam	Invariant	Non-circular
Experimental techniques	Inverse problem	Non-destructive testing
Explosions	Isotropic	Non-homogeneous media
Failure	Joining	Nonlinear
Fastening	Joint with functionally graded material	Nonlinear plate theory
Fatigue	Kinematic	Nonlinear elasticity
Fibre reinforced	Kinetics	Nonsymmetric nucleation
Finite deformation	Kirchhoff plate	Nonuniform
Finite differences	Kirchhoff plate theory	Notch
Finite element	Laminate	Notch configuration
Finite thickness plate	Laminated	Numerical methods
Flexure	Lagrangian multiplier	Ocean structures
Flow-rule	Large deflection	Optimization
Flutter	Large deformation	Optimum shape
Foam structures	Layers	Orthotropic
Formulation	Least squares	Parametrization
Foundation	Light-weight	Particulate media
Fractals	Limit load	Penalty method
Fracture	Limit analysis	Perturbation
Frames	Limit design	Piezocomposite
Free edge	Linear	Piezoelectric
Friction	Linear elastic	Piezoelectric
Frictional	Linear elasticity	Plate
Functionally graded	Loading	Plasticity
Functionally graded materials	Machine elements	Plastics
Galerkin	Magnetoelasticity	Polymers
Geomechanics	Masonry-like materials	Porous media
Granular media	Materials	Post buckling
Green function	Material combination	Propagation
Grey cast iron	Material creep behavior	Quantifier
Ground structures	Materials processing	Random loads
Half-space	Matrix	Random waves
Hardening	Matrix composite	Rayleigh quotient
Higher order	Mechanics	Reflection
Homogeneity	Mechanical property	Refraction
Homogeneous	Membrane	Reissner–Mindlin plate
Homogenization		Relaxation

Reliability	Soil mechanics	Thermoelastic
Residual stress	Solids	Thermomechanical
Reticulated rod	Solid–fluid interaction	Thermoplasticity
Rigid bodies	Spherical	Thick
Rings	Springs	Thick laminated composite plates
Ritz method	Stability	Thick-walled
Robotics	Static analysis	Thin
Rock mechanics	Stiffened	Three-dimensional effect
Rod	Stiffness	Three-dimensional elasticity solution
Rolling	Stochastic	Time-dependent
Ropes	Stochastic finite element method	Timoshenko beam
Rotating	Strain	Torsion
Rotating disk	Strain-dependent	Torsional warping
Rubbers	Strain-rate	Toughness
Rupture	Stress	Traction
Saint-Venant's principle	Stress concentrations	Transient
Sandwich materials	Stress intensity	Trusses
Scattering	Stress intensity factor	Underconstrained
Semi-infinite interface crack	Stress–strain	Uniaxial
Sensitivity	Strings	Unidirectional
Shafts	Strip	Uniformity
Shakedown	Strip yielding model	Uniqueness theorems
Shallow	Structures	Variable loading
Shape-memory	Subinterface matrix microcrack	Variational method
Shear band	Subinterface microcrack	Vibration
Shear deformation	Successive approximations	Viscoelastic
Shear lag	Surface waves	Visco-elastic Binder
Shell	Symmetric	Viscoplastic
Simple shear	T-stress	Viscoplastic response
Simply-supported	Tapered	Voids
Singularities	Tensile	Xon Karman theory
Singular integrals	Tension	Warping
Snap-through	Testing	Wave
Softening	Thermal loading	Wear
Soft tissue	Thermal stress	Wires
Soil	Thermodynamics of solids	Yield