



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.

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|---------------------|------------------------|-------------------|
| 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 |

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|---------------------------|--------------------------|---------------------|
| 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 | |