

PII: S0020-7683(97)00293-X

## 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          | Compliance composite   | Dynamic                 |
| Acoustic            | Composite materials    | Eigenvalues             |
| Adaptive structures | Compression            | Elastic                 |
| Adhesion            | Computational conical  | Elastic-plastic         |
| Ageing of materials | Concentration          | Elasticity              |
| Algorithms          | Concrete               | Elastoelasticity        |
| Alloy               | Consolidation          | Elastomers              |
| Anisotropic         | Constitutive           | Elastoplasticity        |
| Arches              | Contact                | Energy methods          |
| Asymptotic          | Containment structures | Energy release rate     |
| Axially             | Continuum              | Euler-Bernoulli beam    |
| Axisymmetric        | Control                | Experimental techniques |
| Ballistics          | Converging             | Explosions              |
| Bar                 | Cosserat               | Failure                 |
| Beam                | Crack                  | Fastening               |
| Bending             | Crack arrest           | Fatigue                 |
| Biaxial             | Crack-tip              | Fibre reinforced        |
| Bifurcation         | Creep                  | Finite deformation      |
| Biharmonic equation | Cross-section          | Finite differences      |
| Bimaterial          | Cross-ply              | Finite element          |
| Biomechanics        | Crystals               | Flexure                 |
| Bonded              | Cyclic                 | Flow-rule               |
| Bone                | Cylinder               | Flutter                 |
| Boundary conditions | Damage criteria        | Foam structures         |
| Boundary element    | Damping                | Foundation              |
| Boundary value      | Debonding              | Fractals                |
| Branching           | Decay                  | Fracture                |
| Brittle             | Decomposition          | Frames                  |
| Buckling            | Deformable bodies      | Free edge               |
| Cables              | Delamination           | Friction                |
| Cantilever          | Design                 | Frictional              |
| Ceramics            | Diffraction            | Functionally graded     |
| Chains              | Dipole                 | Galerkin                |
| Chaos               | Discontinuities        | Geomechanics            |
| Coastal structures  | Disk                   | Granular media          |
| Collocation         | Dislocations           | Green function          |
| Column              | Dispersion             | Ground structures       |
| Compaction          | Displacement           | Half-space              |
| Complex variable    | Diverging              | Hardening               |

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|-------------------------|--------------------------|---------------------------|
| Higher order            | Nonsymmetric nucleation  | Soil                      |
| Homogeneous             | Nonuniform               | Soil mechanics            |
| Homogenization          | Notch                    | Solids                    |
| Honeycomb structures    | Numerical methods        | Solid–fluid interaction   |
| Hybrid methods          | Ocean structures         | Spherical                 |
| Impact                  | Optimization             | Springs                   |
| Imperfections           | Optimum shape            | Stability                 |
| Impulsive loading       | Orthotropic              | Stiffened                 |
| Inclusions              | Parametrization          | Stiffness                 |
| Indentation             | Particulate media        | Stochastic                |
| Inertia                 | Penalty method           | Strain                    |
| Instability             | Perturbation             | Strain-dependent          |
| Integral equation       | Piezocomposite           | Strain-rate               |
| Interaction             | Piezoelectric            | Stress                    |
| Interface               | Piezoelectric            | Stress concentrations     |
| Interlaminar            | Plate                    | Stress intensity          |
| Internal variable       | Plasticity               | Stress–strain             |
| Invariant               | Plastics                 | Strings                   |
| Inverse problem         | Polymers                 | Strip                     |
| Isotropic               | Porous media             | Structures                |
| Joining                 | Post buckling            | Successive approximations |
| Kinematic               | Propagation              | Surface waves             |
| Kinetics                | Quantifier               | Symmetric                 |
| Kirchhoff plate         | Random waves             | Tapered                   |
| Laminated               | Rayleigh quotient        | Tensile                   |
| Lagrangian multiplier   | Reflection               | Tension                   |
| Large deflection        | Refraction               | Testing                   |
| Large deformation       | Reissner–Mindlin plate   | Thermal stress            |
| Layers                  | Relaxation               | Thermodynamics of solids  |
| Least squares           | Reliability              | Thermoelastic             |
| Light-weight            | Residual stress          | Thermomechanical          |
| Limit load              | Reticulated rod          | Thermoplasticity          |
| Limit analysis          | Rigid bodies             | Thick                     |
| Limit design            | Rings                    | Thick-walled              |
| Linear                  | Robotics                 | Thin                      |
| Loading                 | Rock mechanics           | Time-dependent            |
| Machine elements        | Rod                      | Timoshenko beam           |
| Magnetoelasticity       | Rolling                  | Torsion                   |
| Materials               | Ropes                    | Torsional warping         |
| Materials processing    | Rotating                 | Toughness                 |
| Matrix                  | Rubbers                  | Traction                  |
| Mechanics               | Rupture                  | Transient                 |
| Mechanical property     | Saint-Venant’s principle | Trusses                   |
| Membrane                | Sandwich materials       | Underconstrained          |
| Microbuckling           | Scattering               | Uniaxial                  |
| Micropolar              | Sensitivity              | Unidirectional            |
| Micro-mechanics         | Shafts                   | Uniqueness theorems       |
| Microstructural         | Shakedown                | Variable loading          |
| Mixed variational       | Shallow                  | Variational method        |
| Mobile structures       | Shape-memory             | Vibration                 |
| Mode                    | Shear band               | Viscoelastic              |
| Modelling               | Shear deformation        | Viscoplastic              |
| Modulus                 | Shear lag                | Voids                     |
| Motion                  | Shell                    | Warping                   |
| Moving                  | Simple shear             | Wave                      |
| Non-associated          | Simply-supported         | Wear                      |
| Non-circular            | Singularities            | Wires                     |
| Non-destructive testing | Snap-through             | Yield                     |
| Non-homogeneous media   | Softening                |                           |
| Nonlinear               | Soft tissue              |                           |