Leading journal in Numerical Methods

Now Publishing Weekly!

WILEY ARE PROUD TO SPONSOR...

The Gallagher Young Investigator Award

Recognizing outstanding accomplishments, particularly outstanding published papers, by researchers of 40 years or younger. Consisting of a silver medal and a $1500 honorarium, the award is donated in honour of Richard H. Gallagher, co-founder of the International Journal for Numerical Methods in Engineering.

Founded over three decades ago, yet still at the cutting edge of research, the International Journal for Numerical Methods in Engineering publishes refereed contributions describing significant developments in numerical methods and their application to the solution of practical engineering problems.

Have you read the TOP articles from IJNME? See overleaf...

Visit the Wiley stand to see our full range of Computational Mechanics books and journals
Recent most-downloaded articles:

**The intrinsic XFEM: a method for arbitrary discontinuities without additional unknowns**
By Thomas-Peter Fries, Ted Belytschko

**Overview and construction of meshfree basis functions: from moving least squares to entropy approximants**
By N. Sukumar, R. W. Wright

**Discrete element method for modelling solid and particulate materials**
By Federico A. Tavarez, Michael E. Plesha

**A surface Cauchy-Born model for nanoscale materials**
By Harold S. Park, Patrick A. Klein, Gregory J. Wagner

**A simple finite element model for vibration analyses induced by moving vehicles**

**Finite element study of the energy dissipation and residual stresses in the closed elastic deformation path**
By B. Abbasi, M. H. Parsa

**An interior-point algorithm for elastoplasticity**
By K. Krabbenhoff, A. V. Lyamin, S. W. Sloan, P. Wriggers

**An alternative approach for numerical solutions of the Navier-Stokes equations**
By S. Chantasiriwan

**Efficient explicit time stepping for the Extended Finite Element Method (X-FEM)**
By T. Menouillard, J. Réthoré, A. Combescure, H. Bung

**Combining interface damage and friction in a cohesive-zone model**
By Giulio Alfano, Elio Sacco

**Large-scale topology optimization using preconditioned Krylov subspace methods with recycling**
By Shun Wang, Eric de Sturler, Glaucio H. Paulino

Read these papers online at:
[www.interscience.wiley.com/journal/NME](http://www.interscience.wiley.com/journal/NME)

NOW AVAILABLE...

**Numerical Engineering Backfile Collection**
Gain access to more than 28 years and 156,061 pages of digitized back-issue content across 8 leading journal titles, fully searchable and live-linked with current web content. A one-time fee delivers ongoing access with no strings attached.

For details, please visit:
[www.interscience.wiley.com/backfiles/numericalengineering](http://www.interscience.wiley.com/backfiles/numericalengineering)

Find our full range of Numerical Engineering journals online at:
[www.interscience.wiley.com/numerical](http://www.interscience.wiley.com/numerical)