# Antonio Huerta

List of Publications by Year
in descending order

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|---|---|---|---|
| 162 papers | 6,430 citations | 61945 43 h-index | 102432 66 g-index |
| 176 all docs | 176 docs citations | 176 times ranked | 3462 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Parametric solutions of turbulent incompressible flows in OpenFOAM via the proper generalised decomposition. Journal of Computational Physics, 2022, 449, 110802. | 1.9 | 3 |
| 2 | A non-oscillatory face-centred finite volume method for compressible flows. Computers and Fluids, 2022, 235, 105272. | 1.3 | 5 |
| 3 | Hybridisable Discontinuous Galerkin Formulation of Compressible Flows. Archives of Computational Methods in Engineering, 2021, 28, 753-784. | 6.0 | 15 |
| 4 | HDGlab: An Open-Source Implementation of the Hybridisable Discontinuous Galerkin Method in MATLAB. Archives of Computational Methods in Engineering, 2021, 28, 1941-1986. | 6.0 | 8 |
| 5 | Separated response surfaces for flows in parametrised domains: Comparison of a priori and a posteriori PGD algorithms. Finite Elements in Analysis and Design, 2021, 196, 103530. | 1.7 | 6 |
| 6 | Solution of geometrically parametrised problems within a CAD environment via model order reduction. Computer Methods in Applied Mechanics and Engineering, 2020, 358, 112631. | 3.4 | 13 |
| 7 | A second-order face-centred finite volume method for elliptic problems. Computer Methods in Applied Mechanics and Engineering, 2020, 358, 112655. | 3.4 | 17 |
| 8 | A regularised-adaptive Proper Generalised Decomposition implementation for coupled magneto-mechanical problems with application to MRI scanners. Computer Methods in Applied Mechanics and Engineering, 2020, 358, 112640. | 3.4 | 4 |
| 9 | Hybrid coupling of CG and HDG discretizations based on Nitscheâ€™s method. Computational Mechanics, 2020, 65, 311-330. | 2.2 | 9 |
| 10 | Nonintrusive proper generalised decomposition for parametrised incompressible flow problems in OpenFOAM. Computer Physics Communications, 2020, 249, 107013. | 3.0 | 19 |
| 11 | Fast solution of elliptic harbor agitation problems under frequency-direction input spectra by model order reduction and NURBS-enhanced FEM. Coastal Engineering, 2020, 156, 103618. | 1.7 | 2 |
| 12 | Encapsulated PGD Algebraic Toolbox Operating with High-Dimensional Data. Archives of Computational Methods in Engineering, 2020, 27, 1321-1336. | 6.0 | 15 |
| 13 | A weakly compressible hybridizable discontinuous Galerkin formulation for fluidâ€“structure interaction problems. Computer Methods in Applied Mechanics and Engineering, 2020, 372, 113392. | 3.4 | 13 |
| 14 | Hybridisable discontinuous Galerkin solution of geometrically parametrised Stokes flows. Computer Methods in Applied Mechanics and Engineering, 2020, 372, 113397. | 3.4 | 8 |
| 15 | A staggered high-dimensional Proper Generalised Decomposition for coupled magneto-mechanical problems with application to MRI scanners. Computer Methods in Applied Mechanics and Engineering, 2020, 370, 113271. | 3.4 | 7 |
| 16 | Reshaping diagrams for bending straightening of forged aeronautical components. International Journal of Advanced Manufacturing Technology, 2020, 110, 1485-1502. | 1.5 | 1 |
| 17 | Tutorial on Hybridizable Discontinuous Galerkin (HDG) Formulation for Incompressible Flow Problems. CISM International Centre for Mechanical Sciences, Courses and Lectures, 2020, , 163-201. | 0.3 | 8 |
| 18 | Post-machining distortion mitigation via bending straightening, a multiparametric ROM study. AIP Conference Proceedings, 2019, , . | 0.3 | 1 |

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| 19 | Multiscale proper generalized decomposition based on the partition of unity. International Journal for Numerical Methods in Engineering, 2019, 120, 727-747. | 1.5 | 4 |
| 20 | A local multiple proper generalized decomposition based on the partition of unity. International Journal for Numerical Methods in Engineering, 2019, 120, 139-152. | 1.5 | 4 |
| 21 | Tensor Representation of Non-linear Models Using Cross Approximations. Journal of Scientific Computing, 2019, 81, 22-47. | 1.1 | 4 |
| 22 | A locking-free face-centred finite volume (FCFV) method for linear elastostatics. Computers and Structures, 2019, 212, 43-57. | 2.4 | 18 |
| 23 | A simple microstructural viscoelastic model for flowing foams. International Journal of Material Forming, 2019, 12, 295-306. | 0.9 | 0 |
| 24 | HDG-NEFEM with Degree Adaptivity for Stokes Flows. Journal of Scientific Computing, 2018, 77, 1953-1980. | 1.1 | 23 |
| 25 | Proper generalized decomposition solutions within a domain decomposition strategy. International Journal for Numerical Methods in Engineering, 2018, 113, 1972-1994. | 1.5 | 17 |
| 26 | A Superconvergent HDG Method for Stokes Flow with Strongly Enforced Symmetry of the Stress Tensor. Journal of Scientific Computing, 2018, 77, 1679-1702. | 1.1 | 23 |
| 27 | A Multidimensional Data-Driven Sparse Identification Technique: The Sparse Proper Generalized Decomposition. Complexity, 2018, 2018, 1-11. | 0.9 | 49 |
| 28 | A faceâ€centred finite volume method for secondâ€order elliptic problems. International Journal for Numerical Methods in Engineering, 2018, 115, 986-1014. | 1.5 | 19 |
| 29 | A superconvergent hybridisable discontinuous Galerkin method for linear elasticity. International Journal for Numerical Methods in Engineering, 2018, 116, 91-116. | 1.5 | 27 |
| 30 | An upwind cell centred Total Lagrangian finite volume algorithm for nearly incompressible explicit fast solid dynamic applications. Computer Methods in Applied Mechanics and Engineering, 2018, 340, 684-727. | 3.4 | 18 |
| 31 | Reshaping of large aeronautical structural parts: A simplified simulation approach. AIP Conference Proceedings, 2018, , . | 0.3 | 1 |
| 32 | Algebraic PGD for tensor separation and compression: An algorithmic approach. Comptes Rendus - Mecanique, 2018, 346, 501-514. | 2.1 | 17 |
| 33 | Generalized parametric solutions in Stokes flow. Computer Methods in Applied Mechanics and Engineering, 2017, 326, 223-240. | 3.4 | 18 |
| 34 | Simulating squeeze flows in multiaxial laminates: towards fully 3D mixed formulations. International Journal of Material Forming, 2017, 10, 653-669. | 0.9 | 9 |
| 35 | Error estimation for linear and nonlinear problems. , 2017, , 183-194. | | 1 |
| 36 | Analysis of the average efficiency of an error estimator. , 2017, , 113-126. | | 2 |

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| 37 | Vademecumâ€based GFEM (Vâ€GFEM): optimal enrichment for transient problems. International Journal for Numerical Methods in Engineering, 2016, 108, 971-989. | 1.5 | 12 |
| 38 | Modeling the kinematics of multi-axial composite laminates as a stacking of 2D TIF plies. AIP Conference Proceedings, 2016, , . | 0.3 | 0 |
| 39 | Tutorial on Hybridizable Discontinuous Galerkin (HDG) for Second-Order Elliptic Problems. CISM International Centre for Mechanical Sciences, Courses and Lectures, 2016, , 105-129. | 0.3 | 17 |
| 40 | Elliptic Harbor Wave Model with Perfectly Matched Layer and Exterior Bathymetry Effects. Journal of Waterway, Port, Coastal and Ocean Engineering, 2016, 142, 04016008. | 0.5 | 2 |
| 41 | Spaceâ€time NURBSâ€enhanced finite elements for freeâ€surface flows in 2D. International Journal for Numerical Methods in Fluids, 2016, 81, 426-450. | 0.9 | 10 |
| 42 | Real-time simulation techniques for augmented learning in science and engineering. Visual Computer, 2016, 32, 1465-1479. | 2.5 | 8 |
| 43 | Effect of the separated approximation of input data in the accuracy of the resulting PGD solution. Advanced Modeling and Simulation in Engineering Sciences, 2015, 2, . | 0.7 | 9 |
| 44 | Proper generalized decomposition of a geometrically parametrized heat problem with geophysical applications. International Journal for Numerical Methods in Engineering, 2015, 103, 737-758. | 1.5 | 37 |
| 45 | Proper generalized decomposition for parameterized Helmholtz problems in heterogeneous and unbounded domains: Application to harbor agitation. Computer Methods in Applied Mechanics and Engineering, 2015, 295, 127-149. | 3.4 | 59 |
| 46 | Realâ€time monitoring of thermal processes by reducedâ€order modeling. International Journal for Numerical Methods in Engineering, 2015, 102, 991-1017. | 1.5 | 48 |
| 47 | Parametric solutions involving geometry: A step towards efficient shape optimization. Computer Methods in Applied Mechanics and Engineering, 2014, 268, 178-193. | 3.4 | 69 |
| 48 | Hybridizable Discontinuous Galerkin with degree adaptivity for the incompressible Navierâ€“Stokes equations. Computers and Fluids, 2014, 98, 196-208. | 1.3 | 39 |
| 49 | On the natural stabilization of convection dominated problems using high order Bubnovâ€“Galerkin finite elements. Computers and Mathematics With Applications, 2014, 66, 2545-2558. | 1.4 | 12 |
| 50 | PGD for solving multidimensional and parametric models. CISM International Centre for Mechanical Sciences, Courses and Lectures, 2014, , 27-89. | 0.3 | 3 |
| 51 | Stability of anchored sheet wall in cohesiveâ€frictional soils by FE limit analysis. International Journal for Numerical and Analytical Methods in Geomechanics, 2013, 37, 1213-1230. | 1.7 | 9 |
| 52 | Highâ€order continuous and discontinuous Galerkin methods for wave problems. International Journal for Numerical Methods in Fluids, 2013, 73, 883-903. | 0.9 | 13 |
| 53 | PGD-Based Computational Vademecum for Efficient Design, Optimization and Control. Archives of Computational Methods in Engineering, 2013, 20, 31-59. | 6.0 | 246 |
| 54 | Hybridizable discontinuous Galerkin pâ€adaptivity for wave propagation problems. International Journal for Numerical Methods in Fluids, 2013, 72, 1244-1262. | 0.9 | 46 |

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| 55 | Efficiency of highâ€order elements for continuous and discontinuous Galerkin methods. International Journal for Numerical Methods in Engineering, 2013, 96, 529-560. | 1.5 | 76 |
| 56 | Oneâ€dimensional shockâ€capturing for highâ€order discontinuous Galerkin methods. International Journal for Numerical Methods in Fluids, 2013, 71, 737-755. | 0.9 | 23 |
| 57 | Streamline upwind/Petrovâ€“Galerkinâ€based stabilization of proper generalized decompositions for highâ€dimensional advectionâ€“diffusion equations. International Journal for Numerical Methods in Engineering, 2013, 94, 1216-1232. | 1.5 | 11 |
| 58 | Dimensionless Analysis of HSDM and Application to Simulation of Breakthrough Curves of Highly Adsorbent Porous Media. Journal of Environmental Engineering, ASCE, 2013, 139, 667-676. | 0.7 | 12 |
| 59 | Computable exact bounds for linear outputs from stabilized solutions of the advectionâ€“diffusionâ€“reaction equation. International Journal for Numerical Methods in Engineering, 2013, 93, 483-509. | 1.5 | 6 |
| 60 | A note on upper bound formulations in limit analysis. International Journal for Numerical Methods in Engineering, 2012, 91, 896-908. | 1.5 | 13 |
| 61 | A simple shockâ€capturing technique for highâ€order discontinuous Galerkin methods. International Journal for Numerical Methods in Fluids, 2012, 69, 1614-1632. | 0.9 | 65 |
| 62 | Highâ€order implicit time integration for unsteady incompressibleâ€‰flows. International Journal for Numerical Methods in Fluids, 2012, 70, 603-626. | 0.9 | 10 |
| 63 | Proper Generalized Decomposition based dynamic data-driven control of thermal processes. Computer Methods in Applied Mechanics and Engineering, 2012, 213-216, 29-41. | 3.4 | 90 |
| 64 | Estimation of crack opening from a twoâ€dimensional continuumâ€based finite element computation. International Journal for Numerical and Analytical Methods in Geomechanics, 2012, 36, 1813-1830. | 1.7 | 16 |
| 65 | NURBS-Enhanced Finite Element Method (NEFEM). Archives of Computational Methods in Engineering, 2011, 18, 441-484. | 6.0 | 78 |
| 66 | Comparison of highâ€order curved finite elements. International Journal for Numerical Methods in Engineering, 2011, 87, 719-734. | 1.5 | 47 |
| 67 | 3D NURBSâ€enhanced finite element method (NEFEM). International Journal for Numerical Methods in Engineering, 2011, 88, 103-125. | 1.5 | 69 |
| 68 | Discontinuous Galerkin methods for the Navierâ€“Stokes equations using solenoidal approximations. International Journal for Numerical Methods in Fluids, 2010, 64, 549-564. | 0.9 | 20 |
| 69 | A new least-squares approximation of affine mappings for sweep algorithms. Engineering With Computers, 2010, 26, 327-337. | 3.5 | 4 |
| 70 | A flux-free a posteriori error estimator for the incompressible Stokes problem using a mixed FE formulation. Computer Methods in Applied Mechanics and Engineering, 2010, 199, 2383-2402. | 3.4 | 13 |
| 71 | Modeling, with a unified level-set representation, of the expansion of a hollow in the ground under different physical phenomena. Computational Mechanics, 2010, 46, 315-327. | 2.2 | 5 |
| 72 | SUPG-based stabilization using a separated representations approach. International Journal of Material Forming, 2010, 3, 883-886. | 0.9 | 3 |

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| 73 | An error estimator for separated representations of highly multidimensional models. Computer Methods in Applied Mechanics and Engineering, 2010, 199, 1872-1880. | 3.4 | 103 |
| 74 | Upper and lower bounds in limit analysis: Adaptive meshing strategies and discontinuous loading. International Journal for Numerical Methods in Engineering, 2009, 77, 471-501. | 1.5 | 86 |
| 75 | Strict error bounds for linear solid mechanics problems using a subdomain-based flux-free method. Computational Mechanics, 2009, 44, 533-547. | 2.2 | 32 |
| 76 | Exact Bounds for Linear Outputs of the Advection-Diffusion-Reaction Equation Using Flux-Free Error Estimates. SIAM Journal of Scientific Computing, 2009, 31, 3064-3089. | 1.3 | 27 |
| 77 | NURBSâ€enhanced finite element method (NEFEM). International Journal for Numerical Methods in Engineering, 2008, 76, 56-83. | 1.5 | 169 |
| 78 | Bounds for quantities of interest and adaptivity in the elementâ€free Galerkin method. International Journal for Numerical Methods in Engineering, 2008, 76, 1782-1818. | 1.5 | 5 |
| 79 | NURBSâ€enhanced finite element method for Euler equations. International Journal for Numerical Methods in Fluids, 2008, 57, 1051-1069. | 0.9 | 42 |
| 80 | Discontinuous Galerkin methods for the Stokes equations using divergenceâ€free approximations. International Journal for Numerical Methods in Fluids, 2008, 57, 1071-1092. | 0.9 | 56 |
| 81 | Bounds of functional outputs for parabolic problems. Part II: Bounds of the exact solution. Computer Methods in Applied Mechanics and Engineering, 2008, 197, 1661-1679. | 3.4 | 29 |
| 82 | Bounds of functional outputs for parabolic problems. Part I: Exact bounds of the discontinuous Galerkin time discretization. Computer Methods in Applied Mechanics and Engineering, 2008, 197, 1641-1660. | 3.4 | 32 |
| 83 | Stability of incompressible formulations enriched with X-FEM. Computer Methods in Applied Mechanics and Engineering, 2008, 197, 1835-1849. | 3.4 | 52 |
| 84 | Extraction of a crack opening from a continuous approach using regularized damage models. Computers and Concrete, 2008, 5, 375-388. | 0.7 | 44 |
| 85 | Exact Bounds for Linear Outputs of the Convection-Diffusion-Reaction Equation Using Flux-Free Error Estimates. Lecture Notes in Computational Science and Engineering, 2008, , 215-230. | 0.1 | 0 |
| 86 | Goal Oriented Error Estimation for the Element Free Galerkin Method. , 2007, , 265-282. | | 0 |
| 87 | Stabilized updated Lagrangian corrected SPH for explicit dynamic problems. International Journal for Numerical Methods in Engineering, 2007, 69, 2687-2710. | 1.5 | 68 |
| 88 | Hydraulic behaviour of a representative structural volume for containment buildings. Nuclear Engineering and Design, 2007, 237, 1259-1274. | 0.8 | 34 |
| 89 | UPDATED LAGRANGIAN FORMULATION FOR CORRECTED SMOOTH PARTICLE HYDRODYNAMICS. International Journal of Computational Methods, 2006, 03, 383-399. | 0.8 | 6 |
| 90 | Subdomain-based flux-free a posteriori error estimators. Computer Methods in Applied Mechanics and Engineering, 2006, 195, 297-323. | 3.4 | 93 |

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| 91 | The computation of bounds for linear-functional outputs of weak solutions to the two-dimensional elasticity equations. Computer Methods in Applied Mechanics and Engineering, 2006, 195, 406-429. | 3.4 | 68 |
| 92 | An elastic plastic damage formulation for concrete: Application to elementary tests and comparison with an isotropic damage model. Computer Methods in Applied Mechanics and Engineering, 2006, 195, 7077-7092. | 3.4 | 141 |
| 93 | Etude de la stabilitÃ© dâ€™une formulation incompressible traitÃ©e par X-FEM. European Journal of Computational Mechanics, 2006, 15, 257-268. | 0.6 | 1 |
| 94 | Continuous blending of SPH with finite elements. Computers and Structures, 2005, 83, 1448-1458. | 2.4 | 43 |
| 95 | A new damage model based on non-local displacements. International Journal for Numerical and Analytical Methods in Geomechanics, 2005, 29, 473-493. | 1.7 | 29 |
| 96 | Mesh projection between parametric surfaces. Communications in Numerical Methods in Engineering, 2005, 22, 591-603. | 1.3 | 7 |
| 97 | A new least-squares approximation of affine mappings for sweep algorithms. , 2005, , 433-448. | | 7 |
| 98 | Accurate upper and lower error bounds by solving flux-free local problems in â€œstarsâ€• Revue Europeenne Des Elements, 2004, 13, 497-507. | 0.1 | 4 |
| 99 | Numerical modelling of void inclusions in porous media. International Journal for Numerical Methods in Engineering, 2004, 59, 577-596. | 1.5 | 5 |
| 100 | Efficient and reliable nonlocal damage models. Computer Methods in Applied Mechanics and Engineering, 2004, 193, 3431-3455. | 3.4 | 34 |
| 101 | A comparison of two formulations to blend finite elements and mesh-free methods. Computer Methods in Applied Mechanics and Engineering, 2004, 193, 1105-1117. | 3.4 | 34 |
| 102 | Pseudo-divergence-free element free Galerkin method for incompressible fluid flow. Computer Methods in Applied Mechanics and Engineering, 2004, 193, 1119-1136. | 3.4 | 64 |
| 103 | Imposing essential boundary conditions in mesh-free methods. Computer Methods in Applied Mechanics and Engineering, 2004, 193, 1257-1275. | 3.4 | 355 |
| 104 | Benchmarks for the validation of a non local damage model. Revue EuropÃ©enne De GÃ©nie Civil, 2004, 8, 303-328. | 0.0 | 7 |
| 105 | Computing Bounds for Linear Functionals of Exact Weak Solutions to Poisson's Equation. SIAM Journal on Numerical Analysis, 2004, 42, 1610-1630. | 1.1 | 44 |
| 106 | Benchmarks for the validation of a non local damage model. Revue EuropÃ©enne De GÃ©nie Civil, 2004, 8, 303-328. | 0.0 | 3 |
| 107 | Continuum damage modelling in geomechanics. , 2004, , 77-105. | | 0 |
| 108 | Convergence of finite elements enriched with mesh-less methods. Numerische Mathematik, 2003, 96, 43-59. | 0.9 | 12 |

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| 109 | Efficient and accurate approach for powder compaction problems. Computational Mechanics, 2003, 30, 220-234. | 2.2 | 17 |
| 110 | Numerical representation of the quality measures of triangles and triangular meshes. Communications in Numerical Methods in Engineering, 2003, 19, 551-561. | 1.3 | 14 |
| 111 | Locking in the incompressible limit: pseudo-divergence-free element free Galerkin. Communications in Numerical Methods in Engineering, 2003, 19, 725-735. | 1.3 | 23 |
| 112 | Time accurate consistently stabilized mesh-free methods for convection dominated problems. International Journal for Numerical Methods in Engineering, 2003, 56, 1225-1242. | 1.5 | 12 |
| 113 | Recovering lower bounds of the error by postprocessing implicit residuala posteriorierror estimates. International Journal for Numerical Methods in Engineering, 2003, 56, 1465-1488. | 1.5 | 31 |
| 114 | Coupling Finite Elements and Particles for Adaptivity: An Application to Consistently Stabilized Convection-Diffusion. Lecture Notes in Computational Science and Engineering, 2003, , 117-129. | 0.1 | 4 |
| 115 | Goal-oriented adaptivity for shell structures Error assessment and remeshing criteria. Revue Europeenne Des Elements, 2003, 12, 691-715. | 0.1 | 1 |
| 116 | Efficient and Reliable Nonlocal Damage Models. Lecture Notes in Applied and Computational Mechanics, 2003, , 239-268. | 2.0 | 2 |
| 117 | Locking in the incompressible limit: pseudo-divergence-free element free Galerkin. Revue Europeenne Des Elements, 2002, 11, 869-892. | 0.1 | 4 |
| 118 | Arbitrary Lagrangian-Eulerian (ALE) formulation for hyperelastoplasticity. International Journal for Numerical Methods in Engineering, 2002, 53, 1831-1851. | 1.5 | 60 |
| 119 | Time-accurate solution of stabilized convection-diffusion-reaction equations: I-time and space discretization. Communications in Numerical Methods in Engineering, 2002, 18, 565-573. | 1.3 | 14 |
| 120 | Time-accurate solution of stabilized convection-diffusion-reaction equations: II-accuracy analysis and examples. Communications in Numerical Methods in Engineering, 2002, 18, 575-584. | 1.3 | 13 |
| 121 | The efficient computation of bounds for functionals of finite element solutions in large strain elasticity. Computer Methods in Applied Mechanics and Engineering, 2002, 191, 4807-4826. | 3.4 | 9 |
| 122 | Enrichissement des interpolations d'Ã©lÃ©ments finis en utilisant des mÃ©thodes sans maillage. ESAIM: Mathematical Modelling and Numerical Analysis, 2002, 36, 1027-1042. | 0.8 | 6 |
| 123 | Adaptive analysis based on error estimation for nonlocal damage models. Revue Europeenne Des Elements, 2001, 10, 193-207. | 0.1 | 7 |
| 124 | Consistent tangent matrices for substepping schemes. Computer Methods in Applied Mechanics and Engineering, 2001, 190, 4627-4647. | 3.4 | 71 |
| 125 | Arbitrary Lagrangianâ€“Eulerian formulation for fluidâ€“rigid body interaction. Computer Methods in Applied Mechanics and Engineering, 2001, 190, 3171-3188. | 3.4 | 94 |
| 126 | Consistent tangent matrices for density-dependent finite plasticity models. International Journal for Numerical and Analytical Methods in Geomechanics, 2001, 25, 1045-1075. | 1.7 | 17 |

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| 127 | Locking in the incompressible limit for the elementâ€free Galerkin method. International Journal for Numerical Methods in Engineering, 2001, 51, 1361-1383. | 1.5 | 46 |
| 128 | Implementation of a stabilized finite element formulation for the incompressible Navier-Stokes equations based on a pressure gradient projection. International Journal for Numerical Methods in Fluids, 2001, 37, 419-444. | 0.9 | 50 |
| 129 | An improved algorithm to smooth graded quadrilateral meshes preserving the prescribed element size. Communications in Numerical Methods in Engineering, 2001, 17, 89-99. | 1.3 | 15 |
| 130 | Numerical differentiation for non-trivial consistent tangent matrices: an application to the MRS-Lade model. International Journal for Numerical Methods in Engineering, 2000, 48, 159-184. | 1.5 | 45 |
| 131 | Adaptivity based on error estimation for viscoplastic softening materials. International Journal for Numerical and Analytical Methods in Geomechanics, 2000, 5, 87-112. | 1.0 | 34 |
| 132 | Enrichment and coupling of the finite element and meshless methods. International Journal for Numerical Methods in Engineering, 2000, 48, 1615-1636. | 1.5 | 163 |
| 133 | Efficient unstructured quadrilateral mesh generation. International Journal for Numerical Methods in Engineering, 2000, 49, 1327-1350. | 1.5 | 67 |
| 134 | Error estimation and adaptivity for nonlocal damage models. International Journal of Solids and Structures, 2000, 37, 7501-7528. | 1.3 | 45 |
| 135 | Error estimation including pollution assessment for nonlinear finite element analysis. Computer Methods in Applied Mechanics and Engineering, 2000, 181, 21-41. | 3.4 | 42 |
| 136 | High-order accurate time-stepping schemes for convection-diffusion problems. Computer Methods in Applied Mechanics and Engineering, 2000, 182, 249-275. | 3.4 | 47 |
| 137 | Numerical differentiation for local and global tangent operators in computational plasticity. Computer Methods in Applied Mechanics and Engineering, 2000, 189, 277-296. | 3.4 | 72 |
| 138 | Error estimation for adaptive computations of shell structures. Revue Europeenne Des Elements, 2000, 9, 49-66. | 0.1 | 1 |
| 139 | Numerical differentiation for non-trivial consistent tangent matrices: an application to the MRS-Lade model. , 2000, 48, 159. | | 3 |
| 140 | Adaptivity based on error estimation for viscoplastic softening materials. International Journal for Numerical and Analytical Methods in Geomechanics, 2000, 5, 87-112. | 1.0 | 3 |
| 141 | Accuracy of Two Stress Update Algorithms for Shear-Free Large Deformation Paths. Journal of Engineering Mechanics - ASCE, 1999, 125, 715-717. | 1.6 | 0 |
| 142 | Plastic Flow Potential for Cone Region of MRS-Lade Model. Journal of Engineering Mechanics - ASCE, 1999, 125, 364-366. | 1.6 | 4 |
| 143 | Adaptive analysis of yield line patterns in plates with the arbitrary Lagrangianâ€"Eulerian method. Computers and Structures, 1999, 70, 257-271. | 2.4 | 21 |
| 144 | A unified approach to remeshing strategies for finite element h-adaptivity. Computer Methods in Applied Mechanics and Engineering, 1999, 176, 215-229. | 3.4 | 59 |

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| 145 | Adaptive finite element strategies based on error assessment. International Journal for Numerical Methods in Engineering, 1999, 46, 1803-1818. | 1.5 | 63 |
| 146 | Adapting Broyden method to handle linear constraints imposed via Lagrange multipliers. International Journal for Numerical Methods in Engineering, 1999, 46, 2011-2026. | 1.5 | 8 |
| 147 | ALE stress update for transient and quasistatic processes. International Journal for Numerical Methods in Engineering, 1998, 43, 241-262. | 1.5 | 53 |
| 148 | A fractional-step method for the incompressible Navier-Stokes equations related to a predictor-multicorrector algorithm. International Journal for Numerical Methods in Fluids, 1998, 28, 1391-1419. | 0.9 | 51 |
| 149 | A posteriori error estimation for standard finite element analysis. Computer Methods in Applied Mechanics and Engineering, 1998, 163, 141-157. | 3.4 | 47 |
| 150 | Comparing Two Algorithms to Add Large Strains to Small-Strain FE Code. Journal of Engineering Mechanics - ASCE, 1998, 124, 939-948. | 1.6 | 11 |
| 151 | Error estimation and adaptive finite element analysis of softening solids. Studies in Applied Mechanics, 1998, , 333-347. | 0.4 | 8 |
| 152 | A NOTE ON A NUMERICAL BENCHMARK TEST: AN AXISYMMETRIC SHELL UNDER RING LOADS. Communications in Numerical Methods in Engineering, 1997, 13, 181-192. | 1.3 | 5 |
| 153 | Two stress update algorithms for large strains: accuracy analysis and numerical implementation. International Journal for Numerical Methods in Engineering, 1997, 40, 4363-4404. | 1.5 | 27 |
| 154 | Arbitrary Lagrangian-Eulerian finite element analysis of strain localization in transient problems. International Journal for Numerical Methods in Engineering, 1995, 38, 4171-4191. | 1.5 | 45 |
| 155 | New ALE applications in nonâ€linear fastâ€transient solid dynamics. Engineering Computations, 1994, 11, 317-345. | 0.7 | 53 |
| 156 | Discretization Influence on Regularization by Two Localization Limiters. Journal of Engineering Mechanics - ASCE, 1994, 120, 1198-1218. | 1.6 | 56 |
| 157 | Numerical analysis of non-linear large-strain consolidation and filling. Computers and Structures, 1992, 44, 357-365. | 2.4 | 7 |
| 158 | Finite element analysis of bifurcation in nonlocal strain softening solids. Computer Methods in Applied Mechanics and Engineering, 1991, 90, 905-919. | 3.4 | 60 |
| 159 | Large-Amplitude Sloshing With Submerged Blocks. Journal of Pressure Vessel Technology, Transactions of the ASME, 1990, 112, 104-108. | 0.4 | 10 |
| 160 | Viscous flow with large free surface motion. Computer Methods in Applied Mechanics and Engineering, 1988, 69, 277-324. | 3.4 | 266 |
| 161 | Viscous Flow Structure Interaction. Journal of Pressure Vessel Technology, Transactions of the ASME, 1988, 110, 15-21. | 0.4 | 41 |
| 162 | Permeability and Compressibility of Slurries from Seepageâ€Induced Consolidation. Journal of Geotechcnical Engineering, 1988, 114, 614-627. | 0.4 | 16 |