Klaus-JÃ¼rgen Bathe

List of Publications by Year
in descending order

198 papers	15,921 citations	18436 62 h-index	17546 121 g-index
204 all docs	204 docs citations	204 times ranked	5240 citing authors

#	Article	IF	Citations
1	An enhancement of overlapping finite elements. Computers and Structures, 2022, 260, 106704.	2.4	10
2	Time splitting ratio in the Ïâˆž-Bathe time integration method for higher-order accuracy in structural dynamics and heat transfer. Computers and Structures, 2022, 270, 106814.	2.4	10
3	On the convergence of overlapping elements and overlapping meshes. Computers and Structures, 2021, 244, 106429.	2.4	13
4	New insights into the Î²1/Î²2-Bathe time integration scheme when L-stable. Computers and Structures, 2021, 245, 106433.	2.4	20
5	Acoustic scattering in nonhomogeneous media and the problem of discontinuous gradients: Analysis and infâ€sup stability in the method of finite spheres. International Journal for Numerical Methods in Engineering, 2021, 122, 3141-3170.	1.5	2
6	Accurate solution of wave propagation problems in elasticity. Computers and Structures, 2021, 249, 106502.	2.4	17
7	Transient wave propagations with the Noh-Bathe scheme and the spectral element method. Computers and Structures, 2021, 254, 106531.	2.4	15
8	Selecting the load at the intermediate time point of the Ïâˆž-Bathe time integration scheme. Computers and Structures, 2021, 254, 106559.	2.4	19
9	Overlapping finite element meshes in AMORE. Advances in Engineering Software, 2020, 144, 102791.	1.8	8
10	Transient wave propagation in inhomogeneous media with enriched overlapping triangular elements. Computers and Structures, 2020, 237, 106273.	2.4	45
11	An analysis of implicit time integration schemes for wave propagations. Computers and Structures, 2020, 230, 106188.	2.4	36
12	The method of finite spheres in acoustic wave propagation through nonhomogeneous media: Inf-sup stability conditions. Vietnam Journal of Mechanics, 2020, 42, 209-237.	0.2	3
13	Quadrilateral overlapping elements and their use in the AMORE paradigm. Computers and Structures, 2019, 222, 25-35.	2.4	20
14	For direct time integrations: A comparison of the Newmark and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.svg"><mml:msub><mml:mi>Ï</mml:mi><mml:mi>âˆž</mml:mi></mml:msub></mml:math>-Bathe schemes. Computers and Structures, 2019, 225, 106079.	2.4	41
15	The AMORE paradigm for finite element analysis. Advances in Engineering Software, 2019, 130, 1-13.	1.8	15
16	The Bathe time integration method revisited for prescribing desired numerical dissipation. Computers and Structures, 2019, 212, 289-298.	2.4	67
17	The Bathe time integration method with controllable spectral radius: The Ïâˆž-Bathe method. Computers and Structures, 2019, 212, 299-310.	2.4	111
18	The new paradigm of finite element solutions with overlapping elements in CAD â€“ Computational efficiency of the procedure. Computers and Structures, 2018, 199, 1-17.	2.4	23

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19	The MITC3+ shell element enriched in membrane displacements by interpolation covers. Computer Methods in Applied Mechanics and Engineering, 2018, 337, 458-480.	3.4	39
20	Transient implicit wave propagation dynamics with overlapping finite elements. Computers and Structures, 2018, 199, 18-33.	2.4	52
21	Further insights into an implicit time integration scheme for structural dynamics. Computers and Structures, 2018, 202, 15-24.	2.4	52
22	A new 8-node element for analysis of three-dimensional solids. Computers and Structures, 2018, 202, 85-104.	2.4	9
23	A framework of finite element procedures for the analysis of proteins. Computers and Structures, 2018, 196, 24-35.	2.4	5
24	Inf-sup testing of some three-dimensional low-order finite elements for the analysis of solids. Computers and Structures, 2018, 209, 1-13.	2.4	4
25	A new MITC4+ shell element. Computers and Structures, 2017, 182, 404-418.	2.4	66
26	The finite element method with overlapping elements â€“ A new paradigm for CAD driven simulations. Computers and Structures, 2017, 182, 526-539.	2.4	37
27	Overlapping finite elements for a new paradigm of solution. Computers and Structures, 2017, 187, 64-76.	2.4	23
28	The Bathe subspace iteration method enriched by turning vectors. Computers and Structures, 2017, 186, 11-21.	2.4	12
29	The MITC4+ shell element in geometric nonlinear analysis. Computers and Structures, 2017, 185, 1-14.	2.4	31
30	Performance of the MITC3+ and MITC4+ shell elements in widely-used benchmark problems. Computers and Structures, 2017, 193, 187-206.	2.4	46
31	A new 4-node MITC element for analysis of two-dimensional solids and its formulation in a shell element. Computers and Structures, 2017, 192, 34-49.	2.4	41
32	The MITC4+ shell element and its performance. Computers and Structures, 2016, 169, 57-68.	2.4	60
33	The method of finite spheres in three-dimensional linear static analysis. Computers and Structures, 2016, 173, 161-173.	2.4	11
34	Transient implicit wave propagation dynamics with the method of finite spheres. Computers and Structures, 2016, 173, 50-60.	2.4	32
35	Computing Nonequilibrium Conformational Dynamics of Structured Nucleic Acid Assemblies. Journal of Chemical Theory and Computation, 2016, 12, 261-273.	2.3	20
36	The finite element method with â€œoverlapping finite elementsâ€•, 2016, , 2-7.		8

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37	Transient solution of 3D free surface flows using large time steps. Computers and Structures, 2015, 158, 346-354.	2.4	14
38	The modal behavior of the MITC3+ triangular shell element. Computers and Structures, 2015, 153, 148-164.	2.4	28
39	The MITC3+ shell element in geometric nonlinear analysis. Computers and Structures, 2015, 146, 91-104.	2.4	79
40	Towards a procedure to automatically improve finite element solutions by interpolation covers. Computers and Structures, 2014, 131, 81-97.	2.4	24
41	The method of finite spheres for wave propagation problems. Computers and Structures, 2014, 142, 1-14.	2.4	28
42	The MITC3 shell finite element enriched by interpolation covers. Computers and Structures, 2014, 134, 128-142.	2.4	61
43	Component mode synthesis with subspace iterations for controlled accuracy of frequency and mode shape solutions. Computers and Structures, 2014, 139, 28-32.	2.4	37
44	The solution of Maxwellâ€™s equations in multiphysics. Computers and Structures, 2014, 132, 99-112.	2.4	18
45	Spurious modes in geometrically nonlinear small displacement finite elements with incompatible modes. Computers and Structures, 2014, 140, 14-22.	2.4	18
46	The MITC3+ shell element and its performance. Computers and Structures, 2014, 138, 12-23.	2.4	114
47	The subspace iteration method â€“ Revisited. Computers and Structures, 2013, 126, 177-183.	2.4	62
48	The finite element method enriched by interpolation covers. Computers and Structures, 2013, 116, 35-49.	2.4	56
49	An explicit time integration scheme for the analysis of wave propagations. Computers and Structures, 2013, 129, 178-193.	2.4	210
50	3D-shell elements for structures in large strains. Computers and Structures, 2013, 122, 2-12.	2.4	29
51	Performance of an implicit time integration scheme in the analysis of wave propagations. Computers and Structures, 2013, 123, 93-105.	2.4	117
52	A stress improvement procedure. Computers and Structures, 2012, 112-113, 311-326.	2.4	44
53	A finite element method enriched for wave propagation problems. Computers and Structures, 2012, 94-95, 1-12.	2.4	154
54	Insight into an implicit time integration scheme for structural dynamics. Computers and Structures, 2012, 98-99, 1-6.	2.4	203

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55	Crushing and crashing of tubes with implicit time integration. International Journal of Impact Engineering, 2012, 42, 80-88.	2.4	49
56	Influence of the Thickness in the Finite Element Approximation. Computational Fluid and Solid Mechanics, 2011, , 259-314.	0.5	2
57	The Finite Element Analysis of Shells - Fundamentals. Computational Fluid and Solid Mechanics, 2011, , .	0.5	79
58	The MITC9 shell element in plate bending: mathematical analysis of a simplified case. Computational Mechanics, 2011, 47, 617-626.	2.2	20
59	Measuring the convergence behavior of shell analysis schemes. Computers and Structures, 2011, 89, 285-301.	2.4	46
60	Improved stresses for the 4-node tetrahedral element. Computers and Structures, 2011, 89, 1265-1273.	2.4	25
61	Modeling large strain anisotropic elasto-plasticity with logarithmic strain and stress measures. Computers and Structures, 2011, 89, 826-843.	2.4	52
62	The use of nodal point forces to improve element stresses. Computers and Structures, 2011, 89, 485-495.	2.4	33
63	The Mechanics of Solids and Structures - Hierarchical Modeling and the Finite Element Solution. Computational Fluid and Solid Mechanics, 2011, , .	0.5	36
64	Displacement-Based Shell Finite Elements. Computational Fluid and Solid Mechanics, 2011, , 219-258.	0.5	2
65	Towards the Formulation of Effective General Shell Elements. Computational Fluid and Solid Mechanics, 2011, , 315-363.	0.5	0
66	Asymptotic Behaviors of Shell Models. Computational Fluid and Solid Mechanics, 2011, , 135-217.	0.5	0
67	Shell Mathematical Models. Computational Fluid and Solid Mechanics, 2011, , 95-134.	0.5	1
68	Elements of Functional and Numerical Analysis. Computational Fluid and Solid Mechanics, 2011, , 41-94.	0.5	0
69	On the ellipticity condition for model-parameter dependent mixed formulations. Computers and Structures, 2010, 88, 581-587.	2.4	13
70	The subspace iteration method in protein normal mode analysis. Journal of Computational Chemistry, 2010, 31, 66-74.	1.5	13
71	The quadratic MITC plate and MITC shell elements in plate bending. Advances in Engineering Software, 2010, 41, 712-728.	1.8	72
72	A finite element procedure for multiscale wave equations with application to plasma waves. Computers and Structures, 2010, 88, 87-94.	2.4	33

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73	A Holistic Method to Design an Optimized Energy Scenario and Quantitatively Evaluate Promising Technologies for Implementation. International Journal of Green Energy, 2009, 6, 1-21.	2.1	9
74	A model of incompressible isotropic hyperelastic material behavior using spline interpolations of tensionâ€“compression test data. Communications in Numerical Methods in Engineering, 2009, 25, 53-63.	1.3	83
75	Insight into a model for large strain anisotropic elasto-plasticity. Computational Mechanics, 2009, 44, 651-668.	2.2	21
76	Performance of a new partitioned procedure versus a monolithic procedure in fluidâ€“structure interaction. Computers and Structures, 2009, 87, 793-801.	2.4	325
77	A mesh adaptivity procedure for CFD and fluid-structure interactions. Computers and Structures, 2009, 87, 604-617.	2.4	95
78	A triangular six-node shell element. Computers and Structures, 2009, 87, 1451-1460.	2.4	46
79	A 4-node 3D-shell element to model shell surface tractions and incompressible behavior. Computers and Structures, 2008, 86, 2027-2041.	2.4	42
80	The CIP method embedded in finite element discretizations of incompressible fluid flows. International Journal for Numerical Methods in Engineering, 2007, 71, 66-80.	1.5	9
81	Conserving energy and momentum in nonlinear dynamics: A simple implicit time integration scheme. Computers and Structures, 2007, 85, 437-445.	2.4	323
82	Insight into 3-node triangular shell finite elements: the effects of element isotropy and mesh patterns. Computers and Structures, 2007, 85, 404-418.	2.4	47
83	Benchmark problems for incompressible fluid flows with structural interactions. Computers and Structures, 2007, 85, 628-644.	2.4	79
84	Goal-oriented error estimation in the analysis of fluid flows with structural interactions. Computer Methods in Applied Mechanics and Engineering, 2006, 195, 5673-5684.	3.4	34
85	A flow-condition-based interpolation finite element procedure for triangular grids. International Journal for Numerical Methods in Fluids, 2006, 51, 673-699.	0.9	27
86	A nine-node quadrilateral FCBI element for incompressible fluid flows. Communications in Numerical Methods in Engineering, 2006, 22, 917-931.	1.3	10
87	Insight into finite element shell discretizations by use of the â€œbasic shell mathematical modelâ€. Computers and Structures, 2005, 83, 69-90.	2.4	49
88	A posteriori error estimation techniques in practical finite element analysis. Computers and Structures, 2005, 83, 235-265.	2.4	185
89	Coupling and enrichment schemes for finite element and finite sphere discretizations. Computers and Structures, 2005, 83, 1386-1395.	2.4	26
90	On a composite implicit time integration procedure for nonlinear dynamics. Computers and Structures, 2005, 83, 2513-2524.	2.4	302

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91	Computational issues in large strain elasto-plasticity: an algorithm for mixed hardening and plastic spin. International Journal for Numerical Methods in Engineering, 2005, 63, 159-196.	1.5	42
92	Influence functions and goal-oriented error estimation for finite element analysis of shell structures. International Journal for Numerical Methods in Engineering, 2005, 63, 709-736.	1.5	6
93	On the Reliable Solution of Contact Problems in Engineering Design. International Journal of Mechanics and Materials in Design, 2004, 1, 3-16.	1.7	11
94	Finite element developments for general fluid flows with structural interactions. International Journal for Numerical Methods in Engineering, 2004, 60, 213-232.	1.5	213
95	On modeling mixed hardening in computational plasticity. Computers and Structures, 2004, 82, 535-539.	2.4	14
96	Development of MITC isotropic triangular shell finite elements. Computers and Structures, 2004, 82, 945-962.	2.4	215
97	An evaluation of the Lyapunov characteristic exponent of chaotic continuous systems. International Journal for Numerical Methods in Engineering, 2003, 56, 145-163.	1.5	27
98	A shell problem ?highly sensitive? to thickness changes. International Journal for Numerical Methods in Engineering, 2003, 57, 1039-1052.	1.5	36
99	Towards improving the MITC9 shell element. Computers and Structures, 2003, 81, 477-489.	2.4	101
100	Measuring convergence of mixed finite element discretizations: an application to shell structures. Computers and Structures, 2003, 81, 639-654.	2.4	76
101	The Finite Element Analysis of Shells â€" Fundamentals. Computational Fluid and Solid Mechanics, 2003, , .	0.5	156
102	On the stress integration in large strain elasto-plasticity. , 2003, , 494-497.		3
103	Some advances in modeling multiphysics-biomedical applications. , 2003, , 1676-1679.		2
104	On analytical transformations for efficiency improvements in the method of finite spheres. , 2003, , 1990-1994.		1
105	A FLOW-CONDITION-BASED INTERPOLATION MIXED FINITE ELEMENT PROCEDURE FOR HIGHER REYNOLDS NUMBER FLUID FLOWS. Mathematical Models and Methods in Applied Sciences, 2002, 12, 525-539.	1.7	21
106	A numerical study of a natural convection flow in a cavity. International Journal for Numerical Methods in Fluids, 2002, 40, 1045-1057.	0.9	22
107	On the asymptotic behavior of shell structures and the evaluation in finite element solutions. Computers and Structures, 2002, 80, 235-255.	2.4	61
108	A flow-condition-based interpolation finite element procedure for incompressible fluid flows. Computers and Structures, 2002, 80, 1267-1277.	2.4	82

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109	Optimal consistency errors for general shell elements. Comptes Rendus Mathematique, 2001, 332, 771-776.	0.5	6
110	The infâ€“sup condition and its evaluation for mixed finite element methods. Computers and Structures, 2001, 79, 243-252.	2.4	239
111	On higher-order-accuracy points in isoparametric finite element analysis and an application to error assessment. Computers and Structures, 2001, 79, 1275-1285.	2.4	12
112	Stability and patch test performance of contact discretizations and a new solution algorithm. Computers and Structures, 2001, 79, 1473-1486.	2.4	145
113	Displacement/pressure mixed interpolation in the method of finite spheres. International Journal for Numerical Methods in Engineering, 2001, 51, 275-292.	1.5	45
114	The method of finite spheres with improved numerical integration. Computers and Structures, 2001, 79, 2183-2196.	2.4	119
115	ON THE INFâ€“SUP CONDITION OF MIXED FINITE ELEMENT FORMULATIONS FOR ACOUSTIC FLUIDS. Mathematical Models and Methods in Applied Sciences, 2001, 11, 883-901.	1.7	19
116	Direct and iterative computing of fluid flows fully coupled with structures. , 2001, , 1440-1443.		32
117	On a new segment-to-segment contact algorithm. , 2001, , 165-167.		1
118	On upwind methods for parabolic finite elements in incompressible flows. International Journal for Numerical Methods in Engineering, 2000, 47, 317-340.	1.5	19
119	The mathematical shell model underlying general shell elements. International Journal for Numerical Methods in Engineering, 2000, 48, 289-313.	1.5	64
120	Inf-sup testing of upwind methods. International Journal for Numerical Methods in Engineering, 2000, 48, 745-760.	1.5	29
121	A finite element procedure for the analysis of thermo-mechanical solids in contact. Computers and Structures, 2000, 75, 551-573.	2.4	72
122	An inf-sup test for shell finite elements. Computers and Structures, 2000, 75, 439-456.	2.4	62
123	An evaluation of the MITC shell elements. Computers and Structures, 2000, 75, 1-30.	2.4	188
124	Advances in crush analysis. Computers and Structures, 1999, 72, 31-47.	2.4	26
125	Finite element analysis of fluid flows fully coupled with structural interactions. Computers and Structures, 1999, 72, 1-16.	2.4	199
126	On Mixed Elements for Acoustic Fluid-Structure Interactions. Mathematical Models and Methods in Applied Sciences, 1997, 07, 329-343.	1.7	28

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127	On the stability of mixed finite elements in large strain analysis of incompressible solids. Finite Elements in Analysis and Design, 1997, 28, 83-104.	1.7	57
128	DISPLACEMENT/PRESSURE BASED MIXED FINITE ELEMENT FORMULATIONS FOR ACOUSTIC FLUID-STRUCTURE INTERACTION PROBLEMS. International Journal for Numerical Methods in Engineering, 1997, 40, 2001-2017.	1.5	135
129	On evaluating the inf-sup condition for plate bending elements. International Journal for Numerical Methods in Engineering, 1997, 40, 3639-3663.	1.5	49
130	A FOUR-NODE QUADRILATERAL MIXED-INTERPOLATED ELEMENT FOR SOLIDS AND FLUIDS. Mathematical Models and Methods in Applied Sciences, 1995, 05, 1113-1128.	1.7	40
131	Error indicators and adaptive remeshing in large deformation finite element analysis. Finite Elements in Analysis and Design, 1994, 16, 99-139.	1.7	128
132	Effects of element distortions on the performance of isoparametric elements. International Journal for Numerical Methods in Engineering, 1993, 36, 3553-3576.	1.5	227
133	A note on the use of the additive decomposition of the strain tensor in finite deformation inelasticity. Computer Methods in Applied Mechanics and Engineering, 1991, 93, 31-38.	3.4	13
134	Advances in Finite Element Methods for Elasto-Plastic and Creep Analysis. , 1991, , 461-468.		2
135	A discourse on the stability conditions for mixed finite element formulations. Computer Methods in Applied Mechanics and Engineering, 1990, 82, 27-57.	3.4	202
136	A hyperelastic-based large strain elasto-plastic constitutive formulation with combined isotropic-kinematic hardening using the logarithmic stress and strain measures. International Journal for Numerical Methods in Engineering, 1990, 30, 1099-1114.	1.5	300
137	On the use of hierarchical models in engineering analysis. Computer Methods in Applied Mechanics and Engineering, 1990, 82, 5-26.	3.4	31
138	Nonlinear analysis of concrete structures. Computers and Structures, 1989, 32, 563-590.	2.4	61
139	The MITC7 and MITC9 Plate bending elements. Computers and Structures, 1989, 32, 797-814.	2.4	96
140	Mixed-interpolated elements for Reissner-Mindlin plates. International Journal for Numerical Methods in Engineering, 1989, 28, 1787-1801.	1.5	212
141	Studies of finite element proceduresâ€"the use of ADIANA-F in fluid flow analyses. Computers and Structures, 1989, 32, 499-516.	2.4	15
142	Studies of finite element proceduresan evaluation of preconditioned iterative solvers. Computers and Structures, 1989, 32, 671-677.	2.4	18
143	Some advances in the analysis of semideformable media. Computers and Structures, 1988, 30, 105-112.	2.4	5
144	SOME ADVANCES IN THE ANALYSIS OF SEMIDEFORMABLE MEDIA. , 1988, , 105-112.		1

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145	A Simplified Analysis of Two Plate Bending Elements â€" the MITC4 and MITC9 Elements. , 1987, , 407-417.		21
146	The â€˜effective-stress-functionâ€™ algorithm for thermo-elasto-plasticity and creep. International Journal for Numerical Methods in Engineering, 1987, 24, 1509-1532.	1.5	87
147	Solution of incompressible viscous fluid flow with heat transfer using ADINA-F. Computers and Structures, 1987, 26, 17-31.	2.4	13
148	Thermo-elastic-plastic and creep analysis of shell structures. Computers and Structures, 1987, 26, 135-143.	2.4	20
149	Studies of finite element proceduresâ€"Stress solution of a closed elastic strain path with stretching and shearing using the updated Lagrangian Jaumann formulation. Computers and Structures, 1987, 26, 175-179.	2.4	106
150	A finite element formulation for nonlinear incompressible elastic and inelastic analysis. Computers and Structures, 1987, 26, 357-409.	2.4	394
151	A formulation of general shell elementsâ€"the use of mixed interpolation of tensorial components. International Journal for Numerical Methods in Engineering, 1986, 22, 697-722.	1.5	700
152	A solution method for static and dynamic analysis of three-dimensional contact problems with friction. Computers and Structures, 1986, 24, 855-873.	2.4	250
153	The ADINA system in engineering practice. Finite Elements in Analysis and Design, 1986, 2, 41-60.	1.7	5
154	Finite elements in CAD and ADINA. Nuclear Engineering and Design, 1986, 98, 57-67.	0.8	12
155	Formulierung und Berechnung von isoparametrischen Finite-Elemente-Matrizen. , 1986, , 216-330.		0
156	LÃ¶sung der Gleichgewichtsbedingungen in statischen Berechnungen. , 1986, , 475-546.		1
157	Finite-Elemente-Berechnungen von WÃrmeÃ¼bertragungs- und Feldproblemen sowie FlÃ¼ssigkeitsströmungen. , 1986, , 447-472.		0
158	LÃ¶sung von groÃŸen Eigenproblemen. , 1986, , 730-764.		0
159	LÃ¶sung der Bewegungsgleichungen in kinetischen Berechnungen. , 1986, , 547-610.		0
160	THE ADINA SYSTEM. , 1986, , 1-24.		1
161	Formulierung der Methode der finiten Elemente; lineare Berechnungen in der FestkÃ¶rper- und Strukturmechanik. , 1986, , 128-215.		0
162	Finite Elemente in der nichtlinearen FestkÃ¶rper- und Strukturmechanik. , 1986, , 331-446.		1

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163	Analysis of fluid-structure interactions. a direct symmetric coupled formulation based on the fluid velocity potential. Computers and Structures, 1985, 21, 21-32.	2.4	178
164	On finite element analysis of fluid flow in ducts with boundary layer correction. Computers and Structures, 1985, 21, 105-111.	2.4	3
165	Studies of finite element proceduresâ€"On mesh selection. Computers and Structures, 1985, 21, 257-264.	2.4	21
166	A solution method for planar and axisymmetric contact problems. International Journal for Numerical Methods in Engineering, 1985, 21, 65-88.	1.5	405
167	A four-node plate bending element based on Mindlin/Reissner plate theory and a mixed interpolation. International Journal for Numerical Methods in Engineering, 1985, 21, 367-383.	1.5	880
168	The gradient of the finite element variational indicator with respect to nodal and applications in fracture mechanics and mesh optimization. International Journal for Numerical Methods in Engineering, 1985, 21, 763-774.	1.5	42
169	A simple and effective pipe elbow elementâ€"some nonlinear capabilities. Computers and Structures, 1983, 17, 659-667.	2.4	24
170	On elastic-plastic analysis of I-beams in bending and torsion. Computers and Structures, 1983, 17, 711-718.	2.4	16
171	On the automatic solution of nonlinear finite element equations. Computers and Structures, 1983, 17, 871-879.	2.4	204
172	A study of displacement-based fluid finite elements for calculating frequencies of fluid and fluid-structure systems. Nuclear Engineering and Design, 1983, 76, 137-151.	0.8	138
173	ON ELASTIC-PLASTIC ANALYSIS OF I-BEAMS IN BENDING AND TORSION. , 1983, , 711-718.		2
174	An efficient algorithm for analysis of nonlinear heat transfer with phase changes. International Journal for Numerical Methods in Engineering, 1982, 18, 119-134.	1.5	189
175	On the displacement formulation of torsion of shafts with rectangular cross-sections. International Journal for Numerical Methods in Engineering, 1982, 18, 1565-1568.	1.5	36
176	The Use of ADINA in Engineering Practice. , 1982, , 3-18.		2
177	A solution procedure for thermo-elastic-plastic and creep problems. Nuclear Engineering and Design, 1981, 64, 49-80.	0.8	108
178	A simple and effective element for analysis of general shell structures. Computers and Structures, 1981, 13, 673-681.	2.4	168
179	On nonlinear dynamic analysis using substructuring and mode superposition. Computers and Structures, 1981, 13, 699-707.	2.4	137
180	An accelerated subspace iteration method. Computer Methods in Applied Mechanics and Engineering, 1980, 23, 313-331.	3.4	116

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181	On effective implicit time integration in analysis of fluid-structure problems. International Journal for Numerical Methods in Engineering, 1980, 15, 943-948.	1.5	23
182	A study of three-node triangular plate bending elements. International Journal for Numerical Methods in Engineering, 1980, 15, 1771-1812.	1.5	719
183	On the current state of finite element methods and our ADINA endeavours. Advances in Engineering Software (1978), 1980, 2, 59-65.	0.1	5
184	On finite element large displacement and elastic-plastic dynamic analysis of shell structures. Computers and Structures, 1980, 12, 309-318.	2.4	18
185	On some current procedures and difficulties in finite element analysis of elastic-plastic response. Computers and Structures, 1980, 12, 607-624.	2.4	31
186	A geometric and material nonlinear plate and shell element. Computers and Structures, 1980, 11, 23-48.	2.4	215
187	Finite Element Formulation, Modeling, and Solution of Nonlinear Dynamic Problems. , 1979, , 1-40.		3
188	Finite element free surface seepage analysis without mesh iteration. International Journal for Numerical and Analytical Methods in Geomechanics, 1979, 3, 13-22.	1.7	170
189	Large displacement analysis of three-dimensional beam structures. International Journal for Numerical Methods in Engineering, 1979, 14, 961-986.	1.5	570
190	On the application of the finite element method to metal forming processes â€" part I. Computer Methods in Applied Mechanics and Engineering, 1979, 17-18, 597-608.	3.4	28
191	On three-dimensional nonlinear analysis of concrete structures. Nuclear Engineering and Design, 1979, 52, 385-409.	0.8	64
192	Finite element formulation and solution of nonlinear heat transfer. Nuclear Engineering and Design, 1979, 51, 389-401.	0.8	78
193	AN ASSESSMENT OF CURRENT FINITE ELEMENT ANALYSIS OF NONLINEAR PROBLEMS IN SOLID MECHANICS. , 1976, , 117-164.		7
194	Elastic-plastic large deformation static and dynamic analysis. Computers and Structures, 1976, 6, 81-92.	2.4	66
195	Finite element formulations for large deformation dynamic analysis. International Journal for Numerical Methods in Engineering, 1975, 9, 353-386.	1.5	720
196	Direct solution of large systems of linear equations. Computers and Structures, 1974, 4, 363-372.	2.4	65
197	Solution methods for eigenvalue problems in structural mechanics. International Journal for Numerical Methods in Engineering, 1973, 6, 213-226.	1.5	156
198	Large Eigenvalue Problems in Dynamic Analysis. Journal of the Engineering Mechanics Division, 1972, 98, 1471-1485.	0.4	118