Klaus-JÃ¼rgen Bathe

List of Publications by Year
in descending order

198 papers	15,921 citations	18465 62 h-index	17580 121 g-index
204 all docs	204 docs citations	204 times ranked	5240 citing authors

#	Article	IF	Citations
1	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
2	Finite element formulations for large deformation dynamic analysis. International Journal for Numerical Methods in Engineering, 1975, 9, 353-386.	1.5	720
3	A study of three-node triangular plate bending elements. International Journal for Numerical Methods in Engineering, 1980, 15, 1771-1812.	1.5	719
4	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
5	Large displacement analysis of three-dimensional beam structures. International Journal for Numerical Methods in Engineering, 1979, 14, 961-986.	1.5	570
6	A solution method for planar and axisymmetric contact problems. International Journal for Numerical Methods in Engineering, 1985, 21, 65-88.	1.5	405
7	A finite element formulation for nonlinear incompressible elastic and inelastic analysis. Computers and Structures, 1987, 26, 357-409.	2.4	394
8	Performance of a new partitioned procedure versus a monolithic procedure in fluidâ€"structure interaction. Computers and Structures, 2009, 87, 793-801.	2.4	325
9	Conserving energy and momentum in nonlinear dynamics: A simple implicit time integration scheme. Computers and Structures, 2007, 85, 437-445.	2.4	323
10	On a composite implicit time integration procedure for nonlinear dynamics. Computers and Structures, 2005, 83, 2513-2524.	2.4	302
11	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
12	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
13	The infâ€"sup condition and its evaluation for mixed finite element methods. Computers and Structures, 2001, 79, 243-252.	2.4	239
14	Effects of element distortions on the performance of isoparametric elements. International Journal for Numerical Methods in Engineering, 1993, 36, 3553-3576.	1.5	227
15	A geometric and material nonlinear plate and shell element. Computers and Structures, 1980, 11, 23-48.	2.4	215
16	Development of MITC isotropic triangular shell finite elements. Computers and Structures, 2004, 82, 945-962.	2.4	215
17	Finite element developments for general fluid flows with structural interactions. International Journal for Numerical Methods in Engineering, 2004, 60, 213-232.	1.5	213
18	Mixed-interpolated elements for Reissner-Mindlin plates. International Journal for Numerical Methods in Engineering, 1989, 28, 1787-1801.	1.5	212

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19	An explicit time integration scheme for the analysis of wave propagations. Computers and Structures, 2013, 129, 178-193.	2.4	210
20	On the automatic solution of nonlinear finite element equations. Computers and Structures, 1983, 17, 871-879.	2.4	204
21	Insight into an implicit time integration scheme for structural dynamics. Computers and Structures, 2012, 98-99, 1-6.	2.4	203
22	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
23	Finite element analysis of fluid flows fully coupled with structural interactions. Computers and Structures, 1999, 72, 1-16.	2.4	199
24	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
25	An evaluation of the MITC shell elements. Computers and Structures, 2000, 75, 1-30.	2.4	188
26	A posteriori error estimation techniques in practical finite element analysis. Computers and Structures, 2005, 83, 235-265.	2.4	185
27	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
28	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
29	A simple and effective element for analysis of general shell structures. Computers and Structures, 1981, 13, 673-681.	2.4	168
30	Solution methods for eigenvalue problems in structural mechanics. International Journal for Numerical Methods in Engineering, 1973, 6, 213-226.	1.5	156
31	The Finite Element Analysis of Shells â€" Fundamentals. Computational Fluid and Solid Mechanics, 2003, , .	0.5	156
32	A finite element method enriched for wave propagation problems. Computers and Structures, 2012, 94-95, 1-12.	2.4	154
33	Stability and patch test performance of contact discretizations and a new solution algorithm. Computers and Structures, 2001, 79, 1473-1486.	2.4	145
34	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
35	On nonlinear dynamic analysis using substructuring and mode superposition. Computers and Structures, 1981, 13, 699-707.	2.4	137
36	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

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37	Error indicators and adaptive remeshing in large deformation finite element analysis. Finite Elements in Analysis and Design, 1994, 16, 99-139.	1.7	128
38	The method of finite spheres with improved numerical integration. Computers and Structures, 2001, 79, 2183-2196.	2.4	119
39	Large Eigenvalue Problems in Dynamic Analysis. Journal of the Engineering Mechanics Division, 1972, 98, 1471-1485.	0.4	118
40	Performance of an implicit time integration scheme in the analysis of wave propagations. Computers and Structures, 2013, 123, 93-105.	2.4	117
41	An accelerated subspace iteration method. Computer Methods in Applied Mechanics and Engineering, 1980, 23, 313-331.	3.4	116
42	The MITC3+ shell element and its performance. Computers and Structures, 2014, 138, 12-23.	2.4	114
43	The Bathe time integration method with controllable spectral radius: The Ïâˆž-Bathe method. Computers and Structures, 2019, 212, 299-310.	2.4	111
44	A solution procedure for thermo-elastic-plastic and creep problems. Nuclear Engineering and Design, 1981, 64, 49-80.	0.8	108
45	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
46	Towards improving the MITC9 shell element. Computers and Structures, 2003, 81, 477-489.	2.4	101
47	The MITC7 and MITC9 Plate bending elements. Computers and Structures, 1989, 32, 797-814.	2.4	96
48	A mesh adaptivity procedure for CFD and fluid-structure interactions. Computers and Structures, 2009, 87, 604-617.	2.4	95
49	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
50	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
51	A flow-condition-based interpolation finite element procedure for incompressible fluid flows. Computers and Structures, 2002, 80, 1267-1277.	2.4	82
52	Benchmark problems for incompressible fluid flows with structural interactions. Computers and Structures, 2007, 85, 628-644.	2.4	79
53	The Finite Element Analysis of Shells - Fundamentals. Computational Fluid and Solid Mechanics, 2011, , .	0.5	79
54	The MITC3+ shell element in geometric nonlinear analysis. Computers and Structures, 2015, 146, 91-104.	2.4	79

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55	Finite element formulation and solution of nonlinear heat transfer. Nuclear Engineering and Design, 1979, 51, 389-401.	0.8	78
56	Measuring convergence of mixed finite element discretizations: an application to shell structures. Computers and Structures, 2003, 81, 639-654.	2.4	76
57	A finite element procedure for the analysis of thermo-mechanical solids in contact. Computers and Structures, 2000, 75, 551-573.	2.4	72
58	The quadratic MITC plate and MITC shell elements in plate bending. Advances in Engineering Software, 2010, 41, 712-728.	1.8	72
59	The Bathe time integration method revisited for prescribing desired numerical dissipation. Computers and Structures, 2019, 212, 289-298.	2.4	67
60	Elastic-plastic large deformation static and dynamic analysis. Computers and Structures, 1976, 6, 81-92.	2.4	66
61	A new MITC4+ shell element. Computers and Structures, 2017, 182, 404-418.	2.4	66
62	Direct solution of large systems of linear equations. Computers and Structures, 1974, 4, 363-372.	2.4	65
63	On three-dimensional nonlinear analysis of concrete structures. Nuclear Engineering and Design, 1979, 52, 385-409.	0.8	64
64	The mathematical shell model underlying general shell elements. International Journal for Numerical Methods in Engineering, 2000, 48, 289-313.	1.5	64
65	An inf-sup test for shell finite elements. Computers and Structures, 2000, 75, 439-456.	2.4	62
66	The subspace iteration method â€“ Revisited. Computers and Structures, 2013, 126, 177-183.	2.4	62
67	Nonlinear analysis of concrete structures. Computers and Structures, 1989, 32, 563-590.	2.4	61
68	On the asymptotic behavior of shell structures and the evaluation in finite element solutions. Computers and Structures, 2002, 80, 235-255.	2.4	61
69	The MITC3 shell finite element enriched by interpolation covers. Computers and Structures, 2014, 134, 128-142.	2.4	61
70	The MITC4+ shell element and its performance. Computers and Structures, 2016, 169, 57-68.	2.4	60
71	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
72	The finite element method enriched by interpolation covers. Computers and Structures, 2013, 116, 35-49.	2.4	56

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73	Modeling large strain anisotropic elasto-plasticity with logarithmic strain and stress measures. Computers and Structures, 2011, 89, 826-843.	2.4	52
74	Transient implicit wave propagation dynamics with overlapping finite elements. Computers and Structures, 2018, 199, 18-33.	2.4	52
75	Further insights into an implicit time integration scheme for structural dynamics. Computers and Structures, 2018, 202, 15-24.	2.4	52
76	On evaluating the inf-sup condition for plate bending elements. International Journal for Numerical Methods in Engineering, 1997, 40, 3639-3663.	1.5	49
77	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
78	Crushing and crashing of tubes with implicit time integration. International Journal of Impact Engineering, 2012, 42, 80-88.	2.4	49
79	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
80	A triangular six-node shell element. Computers and Structures, 2009, 87, 1451-1460.	2.4	46
81	Measuring the convergence behavior of shell analysis schemes. Computers and Structures, 2011, 89, 285-301.	2.4	46
82	Performance of the MITC3+ and MITC4+ shell elements in widely-used benchmark problems. Computers and Structures, 2017, 193, 187-206.	2.4	46
83	Displacement/pressure mixed interpolation in the method of finite spheres. International Journal for Numerical Methods in Engineering, 2001, 51, 275-292.	1.5	45
84	Transient wave propagation in inhomogeneous media with enriched overlapping triangular elements. Computers and Structures, 2020, 237, 106273.	2.4	45
85	A stress improvement procedure. Computers and Structures, 2012, 112-113, 311-326.	2.4	44
86	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
87	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
88	A 4-node 3D-shell element to model shell surface tractions and incompressible behavior. Computers and Structures, 2008, 86, 2027-2041.	2.4	42
89	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
90	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>â^ž</mml:mi></mml:msub></mml:math>-Bathe schemes. Computers and Structures, 2019, 225, 106079.	2.4	41

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91	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
92	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
93	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
94	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
95	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
96	A shell problem ?highly sensitive? to thickness changes. International Journal for Numerical Methods in Engineering, 2003, 57, 1039-1052.	1.5	36
97	An analysis of implicit time integration schemes for wave propagations. Computers and Structures, 2020, 230, 106188.	2.4	36
98	The Mechanics of Solids and Structures - Hierarchical Modeling and the Finite Element Solution. Computational Fluid and Solid Mechanics, 2011, , .	0.5	36
99	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
100	A finite element procedure for multiscale wave equations with application to plasma waves. Computers and Structures, 2010, 88, 87-94.	2.4	33
101	The use of nodal point forces to improve element stresses. Computers and Structures, 2011, 89, 485-495.	2.4	33
102	Transient implicit wave propagation dynamics with the method of finite spheres. Computers and Structures, 2016, 173, 50-60.	2.4	32
103	Direct and iterative computing of fluid flows fully coupled with structures. , 2001, , 1440-1443.		32
104	On some current procedures and difficulties in finite element analysis of elastic-plastic response. Computers and Structures, 1980, 12, 607-624.	2.4	31
105	On the use of hierarchical models in engineering analysis. Computer Methods in Applied Mechanics and Engineering, 1990, 82, 5-26.	3.4	31
106	The MITC4+ shell element in geometric nonlinear analysis. Computers and Structures, 2017, 185, 1-14.	2.4	31
107	Inf-sup testing of upwind methods. International Journal for Numerical Methods in Engineering, 2000, 48, 745-760.	1.5	29
108	3D-shell elements for structures in large strains. Computers and Structures, 2013, 122, 2-12.	2.4	29

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109	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
110	On Mixed Elements for Acoustic Fluid-Structure Interactions. Mathematical Models and Methods in Applied Sciences, 1997, 07, 329-343.	1.7	28
111	The method of finite spheres for wave propagation problems. Computers and Structures, 2014, 142, 1-14.	2.4	28
112	The modal behavior of the MITC3+ triangular shell element. Computers and Structures, 2015, 153, 148-164.	2.4	28
113	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
114	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
115	Advances in crush analysis. Computers and Structures, 1999, 72, 31-47.	2.4	26
116	Coupling and enrichment schemes for finite element and finite sphere discretizations. Computers and Structures, 2005, 83, 1386-1395.	2.4	26
117	Improved stresses for the 4-node tetrahedral element. Computers and Structures, 2011, 89, 1265-1273.	2.4	25
118	A simple and effective pipe elbow elementâ€"some nonlinear capabilities. Computers and Structures, 1983, 17, 659-667.	2.4	24
119	Towards a procedure to automatically improve finite element solutions by interpolation covers. Computers and Structures, 2014, 131, 81-97.	2.4	24
120	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
121	Overlapping finite elements for a new paradigm of solution. Computers and Structures, 2017, 187, 64-76.	2.4	23
122	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
123	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
124	Studies of finite element proceduresâ€"On mesh selection. Computers and Structures, 1985, 21, 257-264.	2.4	21
125	A Simplified Analysis of Two Plate Bending Elements â€" the MITC4 and MITC9 Elements. , 1987, , 407-417.		21
126	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

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127	Insight into a model for large strain anisotropic elasto-plasticity. Computational Mechanics, 2009, 44, 651-668.	2.2	21
128	Thermo-elastic-plastic and creep analysis of shell structures. Computers and Structures, 1987, 26, 135-143.	2.4	20
129	The MITC9 shell element in plate bending: mathematical analysis of a simplified case. Computational Mechanics, 2011, 47, 617-626.	2.2	20
130	Computing Nonequilibrium Conformational Dynamics of Structured Nucleic Acid Assemblies. Journal of Chemical Theory and Computation, 2016, 12, 261-273.	2.3	20
131	Quadrilateral overlapping elements and their use in the AMORE paradigm. Computers and Structures, 2019, 222, 25-35.	2.4	20
132	New insights into the Î²1/Î²2-Bathe time integration scheme when L-stable. Computers and Structures, 2021, 245, 106433.	2.4	20
133	On upwind methods for parabolic finite elements in incompressible flows. International Journal for Numerical Methods in Engineering, 2000, 47, 317-340.	1.5	19
134	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
135	Selecting the load at the intermediate time point of the Ïêˆž-Bathe time integration scheme. Computers and Structures, 2021, 254, 106559.	2.4	19
136	On finite element large displacement and elastic-plastic dynamic analysis of shell structures. Computers and Structures, 1980, 12, 309-318.	2.4	18
137	Studies of finite element proceduresan evaluation of preconditioned iterative solvers. Computers and Structures, 1989, 32, 671-677.	2.4	18
138	The solution of Maxwellâ€™s equations in multiphysics. Computers and Structures, 2014, 132, 99-112.	2.4	18
139	Spurious modes in geometrically nonlinear small displacement finite elements with incompatible modes. Computers and Structures, 2014, 140, 14-22.	2.4	18
140	Accurate solution of wave propagation problems in elasticity. Computers and Structures, 2021, 249, 106502.	2.4	17
141	On elastic-plastic analysis of I-beams in bending and torsion. Computers and Structures, 1983, 17, 711-718.	2.4	16
142	Studies of finite element proceduresâ€”the use of ADIANA-F in fluid flow analyses. Computers and Structures, 1989, 32, 499-516.	2.4	15
143	The AMORE paradigm for finite element analysis. Advances in Engineering Software, 2019, 130, 1-13.	1.8	15
144	Transient wave propagations with the Noh-Bathe scheme and the spectral element method. Computers and Structures, 2021, 254, 106531.	2.4	15

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145	On modeling mixed hardening in computational plasticity. Computers and Structures, 2004, 82, 535-539.	2.4	14
146	Transient solution of 3D free surface flows using large time steps. Computers and Structures, 2015, 158, 346-354.	2.4	14
147	Solution of incompressible viscous fluid flow with heat transfer using ADINA-F. Computers and Structures, 1987, 26, 17-31.	2.4	13
148	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
149	On the ellipticity condition for model-parameter dependent mixed formulations. Computers and Structures, 2010, 88, 581-587.	2.4	13
150	The subspace iteration method in protein normal mode analysis. Journal of Computational Chemistry, 2010, 31, 66-74.	1.5	13
151	On the convergence of overlapping elements and overlapping meshes. Computers and Structures, 2021, 244, 106429.	2.4	13
152	Finite elements in CAD and ADINA. Nuclear Engineering and Design, 1986, 98, 57-67.	0.8	12
153	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
154	The Bathe subspace iteration method enriched by turning vectors. Computers and Structures, 2017, 186, 11-21.	2.4	12
155	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
156	The method of finite spheres in three-dimensional linear static analysis. Computers and Structures, 2016, 173, 161-173.	2.4	11
157	A nine-node quadrilateral FCBI element for incompressible fluid flows. Communications in Numerical Methods in Engineering, 2006, 22, 917-931.	1.3	10
158	An enhancement of overlapping finite elements. Computers and Structures, 2022, 260, 106704.	2.4	10
159	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
160	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
161	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
162	A new 8-node element for analysis of three-dimensional solids. Computers and Structures, 2018, 202, 85-104.	2.4	9

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163	Overlapping finite element meshes in AMORE. Advances in Engineering Software, 2020, 144, 102791.	1.8	8
164	The finite element method with â€œoverlapping finite elementsâ€• , 2016, , 2-7.		8
165	AN ASSESSMENT OF CURRENT FINITE ELEMENT ANALYSIS OF NONLINEAR PROBLEMS IN SOLID MECHANICS. , 1976, , 117-164.		7
166	Optimal consistency errors for general shell elements. Comptes Rendus Mathematique, 2001, 332, 771-776.	0.5	6
167	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
168	On the current state of finite element methods and our ADINA endeavours. Advances in Engineering Software (1978), 1980, 2, 59-65.	0.1	5
169	The ADINA system in engineering practice. Finite Elements in Analysis and Design, 1986, 2, 41-60.	1.7	5
170	Some advances in the analysis of semideformable media. Computers and Structures, 1988, 30, 105-112.	2.4	5
171	A framework of finite element procedures for the analysis of proteins. Computers and Structures, 2018, 196, 24-35.	2.4	5
172	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
173	Finite Element Formulation, Modeling, and Solution of Nonlinear Dynamic Problems. , 1979, , 1-40.		3
174	On finite element analysis of fluid flow in ducts with boundary layer correction. Computers and Structures, 1985, 21, 105-111.	2.4	3
175	On the stress integration in large strain elasto-plasticity. , 2003, , 494-497.		3
176	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
177	Influence of the Thickness in the Finite Element Approximation. Computational Fluid and Solid Mechanics, 2011, , 259-314.	0.5	2
178	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
179	Displacement-Based Shell Finite Elements. Computational Fluid and Solid Mechanics, 2011, , 219-258.	0.5	2
180	Some advances in modeling multiphysics-biomedical applications. , 2003, , 1676-1679.		2

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181	The Use of ADINA in Engineering Practice. , 1982, , 3-18.		2
182	Advances in Finite Element Methods for Elasto-Plastic and Creep Analysis. , 1991, , 461-468.		2
183	ON ELASTIC-PLASTIC ANALYSIS OF I-BEAMS IN BENDING AND TORSION. , 1983, , 711-718.		2
184	On a new segment-to-segment contact algorithm. , 2001, , 165-167.		1
185	On analytical transformations for efficiency improvements in the method of finite spheres. , 2003, , 1990-1994.		1
186	Shell Mathematical Models. Computational Fluid and Solid Mechanics, 2011, , 95-134.	0.5	1
187	LÃ¶sung der Gleichgewichtsbedingungen in statischen Berechnungen. , 1986, , 475-546.		1
188	THE ADINA SYSTEM. , 1986, , 1-24.		1
189	Finite Elemente in der nichtlinearen FestkÃ¶rper- und Strukturmechanik. , 1986, , 331-446.		1
190	SOME ADVANCES IN THE ANALYSIS OF SEMIDEFORMABLE MEDIA. , 1988, , 105-112.		1
191	Towards the Formulation of Effective General Shell Elements. Computational Fluid and Solid Mechanics, 2011, , 315-363.	0.5	0
192	Asymptotic Behaviors of Shell Models. Computational Fluid and Solid Mechanics, 2011, , 135-217.	0.5	0
193	Elements of Functional and Numerical Analysis. Computational Fluid and Solid Mechanics, 2011, , 41-94.	0.5	0
194	Formulierung und Berechnung von isoparametrischen Finite-Elemente-Matrizen. , 1986, , 216-330.		0
195	Finite-Elemente-Berechnungen von WÃrmeÃ¼bertragungs- und Feldproblemen sowie FlÃ¼ssigkeitsstrÃ¶mungen. , 1986, , 447-472.		0
196	LÃ¶sung von groÃŸen Eigenproblemen. , 1986, , 730-764.		0
197	LÃ¶sung der Bewegungsgleichungen in kinetischen Berechnungen. , 1986, , 547-610.		0
198	Formulierung der Methode der finiten Elemente; lineare Berechnungen in der FestkÃ¶rper- und Strukturmechanik. , 1986, , 128-215.		0