List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Non-reflecting boundary conditions. Journal of Computational Physics, 1991, 94, 1-29.	1.9	610
2	Exact non-reflecting boundary conditions. Journal of Computational Physics, 1989, 82, 172-192.	1.9	562
3	High-order local non-reflecting boundary conditions: a review. Wave Motion, 2004, 39, 319-326.	1.0	384
4	High-order non-reflecting boundary scheme for time-dependent waves. Journal of Computational Physics, 2003, 186, 24-46.	1.9	180
5	Non-reflecting boundary conditions for elastic waves. Wave Motion, 1990, 12, 261-279.	1.0	178
6	A finite element method for large domains. Computer Methods in Applied Mechanics and Engineering, 1989, 76, 41-66.	3.4	177
7	High-order local absorbing conditions for the wave equation: Extensions and improvements. Journal of Computational Physics, 2008, 227, 3322-3357.	1.9	121
8	Exact Representations on Artificial Interfaces and Applications in Mechanics. Applied Mechanics Reviews, 1999, 52, 333-349.	4.5	92
9	XFEM-based crack detection scheme using a genetic algorithm. International Journal for Numerical Methods in Engineering, 2007, 71, 1051-1080.	1.5	83
10	Nonreflecting Boundary Conditions Based on Kirchhoff-Type Formulae. Journal of Computational Physics, 1995, 117, 102-113.	1.9	82
11	Comparison of highâ€order absorbing boundary conditions and perfectly matched layers in the frequency domain. International Journal for Numerical Methods in Biomedical Engineering, 2010, 26, 1351-1369.	1.0	76
12	Finite element formulation with high-order absorbing boundary conditions for time-dependent waves. Computer Methods in Applied Mechanics and Engineering, 2006, 195, 3666-3690.	3.4	69
13	High-order Absorbing Boundary Conditions for anisotropic and convective wave equations. Journal of Computational Physics, 2010, 229, 1099-1129.	1.9	69
14	Dirichlet-to-Neumann Maps for Unbounded Wave Guides. Journal of Computational Physics, 1998, 143, 200-223.	1.9	60
15	High-order boundary conditions and finite elements for infinite domains. Computer Methods in Applied Mechanics and Engineering, 1997, 143, 13-39.	3.4	59
16	Crack identification by â€~arrival time' using XFEM and a genetic algorithm. International Journal for Numerical Methods in Engineering, 2009, 77, 337-359.	1.5	56
17	High-order non-reflecting boundary conditions for dispersive waves. Wave Motion, 2003, 37, 257-271.	1.0	54
18	High-Order Nonreflecting Boundary Conditions without High-Order Derivatives. Journal of Computational Physics, 2001, 170, 849-870.	1.9	53

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19	The Double Absorbing Boundary method. Journal of Computational Physics, 2014, 259, 220-241.	1.9	47
20	Neural network time series forecasting of finite-element mesh adaptation. Neurocomputing, 2005, 63, 447-463.	3.5	45
21	A spatially exact non-reflecting boundary condition for time dependent problems. Computer Methods in Applied Mechanics and Engineering, 1992, 95, 97-113.	3.4	42
22	LOCAL HIGH-ORDER ABSORBING BOUNDARY CONDITIONS FOR TIME-DEPENDENT WAVES IN GUIDES. Journal of Computational Acoustics, 2007, 15, 1-22.	1.0	42
23	Radiation boundary conditions for time-dependent waves based on complete plane wave expansions. Journal of Computational and Applied Mathematics, 2010, 234, 1988-1995.	1.1	41
24	Stress Concentration at a Nearly Circular Hole With Uncertain Irregularities. Journal of Applied Mechanics, Transactions ASME, 1992, 59, S65-S71.	1.1	39
25	Long-time stable high-order absorbing boundary conditions for elastodynamics. Computer Methods in Applied Mechanics and Engineering, 2012, 241-244, 20-37.	3.4	39
26	Finite element analysis of time-dependent semi-infinite wave-guides with high-order boundary treatment. International Journal for Numerical Methods in Engineering, 2003, 58, 1955-1983.	1.5	38
27	A finite element method for domains with corners. International Journal for Numerical Methods in Engineering, 1992, 35, 1329-1345.	1.5	37
28	Special finite elements for use with high-order boundary conditions. Computer Methods in Applied Mechanics and Engineering, 1994, 119, 199-213.	3.4	37
29	A finite element scheme with a high order absorbing boundary condition for elastodynamics. Computer Methods in Applied Mechanics and Engineering, 2011, 200, 2048-2066.	3.4	36
30	Optimal modal reduction of vibrating substructures. International Journal for Numerical Methods in Engineering, 2003, 57, 341-369.	1.5	34
31	Time reversal with partial information for wave refocusing and scatterer identification. Computer Methods in Applied Mechanics and Engineering, 2012, 213-216, 223-242.	3.4	33
32	Which are the important modes of a subsystem?. International Journal for Numerical Methods in Engineering, 2004, 59, 1657-1678.	1.5	31
33	Time Reversal as a Computational Tool in Acoustics and Elastodynamics. Journal of Computational Acoustics, 2014, 22, 1430001.	1.0	31
34	High-order nonreflecting boundary conditions for the dispersive shallow water equations. Journal of Computational and Applied Mathematics, 2003, 158, 49-60.	1.1	30
35	High-order Higdon-like boundary conditions for exterior transient wave problems. International Journal for Numerical Methods in Engineering, 2005, 63, 1041-1068.	1.5	30
36	Artificial boundary conditions for 2D problems in geophysics. Computer Methods in Applied Mechanics and Engineering, 1993, 110, 87-101.	3.4	29

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37	A tutorial on the adjoint method for inverse problems. Computer Methods in Applied Mechanics and Engineering, 2021, 380, 113810.	3.4	28
38	Finite-Element Mesh Generation Using Self-Organizing Neural Networks. Computer-Aided Civil and Infrastructure Engineering, 1997, 12, 233-250.	6.3	26
39	Discrete Dirichlet-to-Neumann maps for unbounded domains. Computer Methods in Applied Mechanics and Engineering, 1998, 164, 173-185.	3.4	25
40	Optimal local non-reflecting boundary conditions. Applied Numerical Mathematics, 1998, 27, 367-384.	1.2	25
41	Time-stepping schemes for systems of Volterra integro-differential equations. Computer Methods in Applied Mechanics and Engineering, 2001, 190, 5691-5718.	3.4	22
42	Towards automating the finite element method: a test-bed for soft computing. Applied Soft Computing Journal, 2003, 3, 37-51.	4.1	22
43	Solution of unbounded domain problems using elliptic artificial boundaries. Communications in Numerical Methods in Engineering, 1995, 11, 735-741.	1.3	20
44	Time reversal for crack identification. Computational Mechanics, 2014, 54, 443-459.	2.2	20
45	Time Reversal for Elastic Wave Refocusing and Scatterer Location Recovery. Journal of Computational Acoustics, 2015, 23, 1450013.	1.0	20
46	The Double Absorbing Boundary method for a class of anisotropic elastic media. Computer Methods in Applied Mechanics and Engineering, 2017, 315, 190-221.	3.4	20
47	An optimal high-order non-reflecting finite element scheme for wave scattering problems. International Journal for Numerical Methods in Engineering, 2002, 53, 2389-2411.	1.5	19
48	Obstacle segmentation based on the wave equation and deep learning. Journal of Computational Physics, 2020, 413, 109458.	1.9	19
49	Finite element analysis of wave scattering from singularities. Wave Motion, 1994, 20, 165-176.	1.0	18
50	Complete Radiation Boundary Conditions for Convective Waves. Communications in Computational Physics, 2012, 11, 610-628.	0.7	18
51	Dynamic thermoelastic coupling effects in a rod. AIAA Journal, 1995, 33, 776-778.	1.5	16
52	Non-Reflecting Finite Element Schemes for Three-Dimensional Acoustic Waves. Journal of Computational Acoustics, 1997, 05, 95-115.	1.0	16
53	Optimal modal reduction of dynamic subsystems: Extensions and improvements. International Journal for Numerical Methods in Engineering, 2011, 85, 1-30.	1.5	16
54	Combined arrival-time imaging and time reversal for scatterer identification. Computer Methods in Applied Mechanics and Engineering, 2017, 313, 279-302.	3.4	16

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55	Minimization of thermoelastic deformation in space structures undergoing periodic motion. Journal of Spacecraft and Rockets, 1995, 32, 662-669.	1.3	15
56	The double absorbing boundary method for elastodynamics in homogeneous and layered media. Advanced Modeling and Simulation in Engineering Sciences, 2015, 2, .	0.7	15
57	Application of highâ€order Higdon nonâ€reflecting boundary conditions to linear shallow water models. Communications in Numerical Methods in Engineering, 2008, 24, 1459-1466.	1.3	14
58	Double Absorbing Boundary Formulations for Acoustics and Elastodynamics. SIAM Journal of Scientific Computing, 2014, 36, A1277-A1312.	1.3	14
59	Dirichlet-to-Neumann boundary condition for time-dependent dispersive waves in three-dimensional guides. Journal of Computational Physics, 2004, 199, 339-354.	1.9	13
60	Combined asymptotic finite-element modeling of thin layers for scalar elliptic problems. Computer Methods in Applied Mechanics and Engineering, 2011, 200, 3255-3269.	3.4	13
61	On the stability of the high-order Higdon Absorbing Boundary Conditions. Applied Numerical Mathematics, 2011, 61, 768-784.	1.2	13
62	Thermoelastic analysis of space structures in periodic motion. Journal of Spacecraft and Rockets, 1991, 28, 457-464.	1.3	12
63	HARMONIC FINITE-ELEMENT THERMOELASTIC ANALYSIS OF SPACE FRAMES AND TRUSSES. Journal of Thermal Stresses, 1993, 16, 233-248.	1.1	12
64	Finite-Element Solution of Nonlinear Time-Dependent Exterior Wave Problems. Journal of Computational Physics, 1998, 143, 241-258.	1.9	12
65	Highâ€order absorbing boundary conditions incorporated in a spectral element formulation. International Journal for Numerical Methods in Biomedical Engineering, 2010, 26, 1130-1143.	1.0	12
66	Mixed-Dimensional Modeling of Time-Dependent Wave Problems Using the Panasenko Construction. Journal of Theoretical and Computational Acoustics, 2018, 26, 1850034.	0.5	12
67	Finite element schemes for non-linear problems in infinite domains. International Journal for Numerical Methods in Engineering, 1998, 42, 341-360.	1.5	11
68	A boundary-perturbation finite element approach for shape optimization. International Journal for Numerical Methods in Engineering, 2000, 47, 801-819.	1.5	11
69	High-order Non-reflecting Boundary Conditions for Dispersive Waves in Cartesian, Cylindrical and Spherical Coordinate Systems. International Journal of Computational Fluid Dynamics, 2003, 17, 263-274.	0.5	11
70	Nonâ€local and local artificial boundary conditions for twoâ€dimensional flow in an infinite channel. International Journal of Numerical Methods for Heat and Fluid Flow, 1996, 6, 47-62.	1.6	10
71	Obstacle identification using the TRAC algorithm with a secondâ \in order ABC. International Journal for Numerical Methods in Engineering, 2019, 118, 61-92.	1.5	10
72	A combined analytic-finite element method for elastic shells. International Journal of Solids and Structures, 1990, 26, 185-198.	1.3	9

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73	STRESS–VELOCITY COMPLETE RADIATION BOUNDARY CONDITIONS. Journal of Computational Acoustics, 2013, 21, 1350003.	1.0	9
74	The Nitsche method applied to a class of mixed-dimensional coupling problems. Computer Methods in Applied Mechanics and Engineering, 2014, 274, 125-147.	3.4	9
75	Non-local and semi-local optimal weighting functions for symmetric problems involving a small parameter. International Journal for Numerical Methods in Engineering, 1988, 26, 1281-1298.	1.5	8
76	A finite element spectral method with application to the thermoelastic analysis of space structures. International Journal for Numerical Methods in Engineering, 1990, 30, 291-306.	1.5	8
77	A simple time-step control scheme. Communications in Numerical Methods in Engineering, 1993, 9, 873-881.	1.3	8
78	Simulation of Czochralski melt flows using parallel adaptive finite element procedures. Modelling and Simulation in Materials Science and Engineering, 1996, 4, 623-639.	0.8	8
79	Analysis of InP LEC metl flows using a parallel adaptive finite element scheme. Journal of Crystal Growth, 1997, 180, 510-516.	0.7	8
80	A numerical method for problems in infinite strips with irregularities extending to infinity. Numerical Methods for Partial Differential Equations, 1998, 14, 233-249.	2.0	8
81	Highâ€order global–regional model interaction: Extension of Carpenter's scheme. International Journal for Numerical Methods in Engineering, 2009, 77, 50-74.	1.5	8
82	Computational Time Reversal for NDT Applications Using Experimental Data. Journal of Nondestructive Evaluation, 2017, 36, 1.	1.1	8
83	Parallel adaptive 3D finite element analysis of CZ melt flows. Journal of Crystal Growth, 1997, 174, 1-6.	0.7	7
84	Thermoelastic stresses in a cylinder or disk with cubic anisotropy. International Journal of Solids and Structures, 1999, 36, 2109-2125.	1.3	7
85	A direct approach to the finite element solution of elliptic optimal control problems. Numerical Methods for Partial Differential Equations, 1999, 15, 371-388.	2.0	7
86	Analysis of pulled axisymmetric membranes with wrinkling. International Journal of Solids and Structures, 2002, 39, 1259-1274.	1.3	7
87	High-order boundary conditions for linearized shallow water equations with stratification, dispersion and advection. International Journal for Numerical Methods in Fluids, 2004, 46, 361-381.	0.9	7
88	A stratified dispersive wave model withhigh-order nonreflecting boundary conditions. Computers and Mathematics With Applications, 2004, 48, 1167-1180.	1.4	7
89	COMPARISON OF TWO-DIMENSIONAL-ONE-DIMENSIONAL COUPLING METHODS FOR TIME-HARMONIC ELASTICITY. International Journal for Multiscale Computational Engineering, 2014, 12, 485-506.	0.8	7
90	Incremental stresses in loaded orthotropic circular membrane tubes—II. Numerical solution. International Journal of Solids and Structures, 1995, 32, 1927-1947.	1.3	6

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91	Quadratic programming algorithms for obstacle problems. Communications in Numerical Methods in Engineering, 1996, 12, 249-256.	1.3	6
92	An adaptive finite element procedure for the image segmentation problem. Communications in Numerical Methods in Engineering, 1998, 14, 621-632.	1.3	6
93	An adaptive finite element framework for fatigue crack propagation. International Journal for Numerical Methods in Engineering, 2002, 54, 111-135.	1.5	6
94	An augmented time reversal method for source and scatterer identification. Journal of Computational Physics, 2018, 375, 99-119.	1.9	6
95	Shape identification of scatterers Using a time-dependent adjoint method. Computer Methods in Applied Mechanics and Engineering, 2022, 394, 114923.	3.4	6
96	A boundary-perturbation finite element method for plane elasticity problems. Computer Methods in Applied Mechanics and Engineering, 1992, 96, 45-63.	3.4	5
97	Heuristic finite element node numbering. Computing Systems in Engineering: an International Journal, 1993, 4, 159-167.	0.5	5
98	Computation of open Willmore-type surfaces. Applied Numerical Mathematics, 2001, 37, 257-269.	1.2	5
99	DtN-based mixed-dimensional coupling using a Boundary Stress Recovery technique. Computer Methods in Applied Mechanics and Engineering, 2015, 287, 31-53.	3.4	5
100	Optimized first-order absorbing boundary conditions for anisotropic elastodynamics. Computer Methods in Applied Mechanics and Engineering, 2019, 350, 719-749.	3.4	5
101	MIXED-DIMENSIONAL COUPLING VIA AN EXTENDED DIRICHLET-TO-NEUMANN METHOD. International Journal for Multiscale Computational Engineering, 2016, 14, 489-513.	0.8	5
102	Finite element analysis of long cylindrical shells. AIAA Journal, 1990, 28, 1331-1333.	1.5	4
103	Scattering matrix of a nearly circular cylinder. Wave Motion, 1999, 30, 239-251.	1.0	4
104	Thermoelastic stresses in a crystal with weak anisotropy. Journal of Crystal Growth, 1999, 198-199, 125-128.	0.7	4
105	Mixed-dimensional coupling for time-dependent wave problems using the Nitsche method. Computer Methods in Applied Mechanics and Engineering, 2019, 349, 213-250.	3.4	4
106	Scatterer identification in a 2D geophysical medium using an augmented computational time reversal method. International Journal for Numerical and Analytical Methods in Geomechanics, 2021, 45, 867-892.	1.7	4
107	Incremental stresses in loaded orthotropic circular membrane tubes—I. Theory. International Journal of Solids and Structures, 1995, 32, 1907-1925.	1.3	3
108	Stability and accuracy of optimal local non-reflecting boundary conditions. Applied Numerical Mathematics, 2000, 33, 327-340.	1.2	3

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109	OPTIMAL LOCAL NONREFLECTING BOUNDARY CONDITIONS FOR TIME-DEPENDENT WAVES. Journal of Computational Acoustics, 2000, 08, 157-170.	1.0	3
110	A FINITE ELEMENT STRUCTURAL-ACOUSTIC MODEL OF COUPLED MEMBRANES. Journal of Computational Acoustics, 2004, 12, 605-618.	1.0	3
111	Optimal shape of a grain or a fibre cross-section in a two-phase composite. Communications in Numerical Methods in Engineering, 2004, 21, 49-60.	1.3	3
112	On the number of reliable finite-element eigenmodes. Communications in Numerical Methods in Engineering, 2008, 24, 1967-1977.	1.3	3
113	STRESSES IN AN ABLATING CYLINDER. Journal of Thermal Stresses, 1990, 13, 263-279.	1.1	2
114	A finite element scheme based on the simplified Reissner equations for shells of revolution. Computer Methods in Applied Mechanics and Engineering, 1991, 93, 111-124.	3.4	2
115	Generalized Finite Element-Harmonic Analysis for Nonlinear Heat Transfer. Journal of Thermophysics and Heat Transfer, 1999, 13, 100-109.	0.9	2
116	Boundary transfer operators in oneâ€way nesting schemes for heat flow problems. International Journal of Numerical Methods for Heat and Fluid Flow, 2009, 19, 352-373.	1.6	2
117	High-order one-way model nesting in dispersive non-uniform media. Journal of Computational and Applied Mathematics, 2010, 234, 1663-1669.	1.1	2
118	Hybrid asymptotic-numerical modeling of thin layers for dynamic thermal analysis of structures. International Journal of Numerical Methods for Heat and Fluid Flow, 2016, 26, 818-853.	1.6	2
119	Asymptotic Analysis for Plane Stress Problems. Journal of Elasticity, 2021, 144, 1-14.	0.9	2
120	The double absorbing boundary method for the Helmholtz equation. Applied Numerical Mathematics, 2021, 168, 182-200.	1.2	2
121	Finite-Element Mesh Adaptation via Time Series Prediction Using Neural Networks. , 2002, , 769-782.		2
122	Solution of static optimal control problems in non-linear elasticity via quadratic programming. Communications in Numerical Methods in Engineering, 2000, 16, 877-890.	1.3	1
123	Solution of non-linear dispersive wave problems using a moving finite element method. Communications in Numerical Methods in Engineering, 2006, 23, 253-262.	1.3	1
124	An axisymmetric parachute model with wrinkling. Journal of Mechanics of Materials and Structures, 2011, 6, 417-442.	0.4	1
125	COMPUTATIONAL METHODS FOR ANALYZING AIRCRAFT NOISE ABOVE GROUND WITH GENERAL TOPOGRAPHY AND IMPEDANCE. Journal of Computational Acoustics, 2012, 20, 1240001.	1.0	1
126	Simple Procedure for Multifrequency Analysis. AIAA Journal, 2012, 50, 238-242.	1.5	1

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127	LATIN: A new view and an extension to wave propagation in nonlinear media. International Journal for Numerical Methods in Engineering, 2017, 112, 125-156.	1.5	1
128	The Double Absorbing Boundary Method Incorporated in a High-Order Spectral Element Formulation. Journal of Theoretical and Computational Acoustics, 2020, 28, 2050007.	0.5	1
129	Elastodynamic 2D-1D coupling using the DtN method. Journal of Computational Physics, 2022, 448, 110722.	1.9	1
130	Optimal control of radiating panels via sequential quadratic programming. International Journal of Numerical Methods for Heat and Fluid Flow, 2002, 12, 47-64.	1.6	0
131	Framework for Flaw Detection: Application to Dynamic Crack Detection in Flat Membranes. , 2008, , .		0
132	Convective Wave Equation and Time Reversal Process for Source Refocusing. Journal of Theoretical and Computational Acoustics, 2018, 26, 1850016.	0.5	0
133	Harmonic finite element analysis for anisotropic viscoelasticity. AIAA Journal, 2001, 39, 349-352.	1.5	0
134	Exact and High-Order Non-Reflecting Computational Boundaries. , 2003, , 26-31.		0
135	Flaw Identification in Structures via Computationally Assisted NDT. Solid Mechanics and Its Applications, 2009, , 223-235.	0.1	0