

Nikolaos I Ioakimidis

List of Publications by Year in descending order

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193
papers

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304368

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g-index

195
all docs

195
docs citations

195
times ranked

336
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical integration methods for the solution of singular integral equations. Quarterly of Applied Mathematics, 1977, 35, 173-183.	0.5	268
2	Application of finite-part integrals to the singular integral equations of crack problems in plane and three-dimensional elasticity. Acta Mechanica, 1982, 45, 31-47.	1.1	150
3	On the uniform convergence of Gaussian quadrature rules for Cauchy principal value integrals and their derivatives. Mathematics of Computation, 1985, 44, 191-191.	1.1	64
4	A natural approach to the introduction of finite-part integrals into crack problems of three-dimensional elasticity. Engineering Fracture Mechanics, 1982, 16, 669-673.	2.0	49
5	On the numerical evaluation of two-dimensional principal value integrals. International Journal for Numerical Methods in Engineering, 1980, 15, 629-634.	1.5	46
6	On the natural interpolation formula for cauchy type singular integral equations of the first kind. Computing (Vienna/New York), 1981, 26, 73-77.	3.2	42
7	The numerical evaluation of a class of generalized stress intensity factors by use of the Lobatto-Jacobi numerical integration rule. International Journal of Fracture, 1978, 14, 469-484.	1.1	40
8	THE INCLUSION PROBLEM IN PLANE ELASTICITY. Quarterly Journal of Mechanics and Applied Mathematics, 1977, 30, 437-448.	0.5	39
9	The numerical solution of crack problems in plane elasticity in the case of loading discontinuities. Engineering Fracture Mechanics, 1980, 13, 709-716.	2.0	35
10	A Comparison Between the Direct and the Classical Numerical Methods for the Solution of Cauchy Type Singular Integral Equations. SIAM Journal on Numerical Analysis, 1980, 17, 115-118.	1.1	35
11	On the numerical evaluation of derivatives of Cauchy principal value integrals. Computing (Vienna/New York), 1981, 27, 81-88.	3.2	33
12	A remark on the numerical solution of singular integral equations and the determination of stress-intensity factors. Journal of Engineering Mathematics, 1979, 13, 213-222.	0.6	31
13	The V-notched elastic half-plane problem. Acta Mechanica, 1979, 32, 125-140.	1.1	31
14	Array of periodic curvilinear cracks in an infinite isotropic medium. Acta Mechanica, 1977, 28, 239-254.	1.1	30
15	On the numerical solution of singular integro-differential equations. Quarterly of Applied Mathematics, 1979, 37, 325-331.	0.5	30
16	A method of numerical solution of cauchy-type singular integral equations with generalized kernels and arbitrary complex singularities. Journal of Computational Physics, 1979, 30, 309-323.	1.9	30
17	A new singular integral equation for the classical crack problem in plane and antiplane elasticity. International Journal of Fracture, 1983, 21, 115-122.	1.1	30
18	On the numerical solution of Cauchy type singular integral equations and the determination of stress intensity factors in case of complex singularities. Zeitschrift Fur Angewandte Mathematik Und Physik, 1977, 28, 1085-1098.	0.7	27

#	ARTICLE	IF	CITATIONS
19	On the Weighted Galerkin Method of Numerical Solution of Cauchy Type Singular Integral Equations. SIAM Journal on Numerical Analysis, 1981, 18, 1120-1127.	1.1	27
20	The equations of caustics for crack and other dynamic plane elasticity problems. Engineering Fracture Mechanics, 1979, 12, 613-615.	2.0	25
21	Stress-Intensity Factors and Complex Path-Independent Integrals. Journal of Applied Mechanics, Transactions ASME, 1980, 47, 342-346.	1.1	22
22	Elementary applications of MATHEMATICA to the solution of elasticity problems by the finite element method. Computer Methods in Applied Mechanics and Engineering, 1993, 102, 29-40.	3.4	22
23	An improved method for the determination of mode I stress intensity factors by the experimental method of caustics. Journal of Strain Analysis for Engineering Design, 1979, 14, 111-118.	1.0	21
24	A generalization of the Siewert-Burniston method for the determination of zeros of analytic functions. Journal of Mathematical Physics, 1984, 25, 2422-2425.	0.5	21
25	Remarks on the gaussian quadrature rule for finite-part integrals with a second-order singularity. Computer Methods in Applied Mechanics and Engineering, 1988, 69, 325-343.	3.4	21
26	Numerical evaluation of analytic functions by Cauchy's theorem. BIT Numerical Mathematics, 1991, 31, 276-285.	1.0	21
27	On the selection of collocation points for the numerical solution of singular integral equations with generalized kernels appearing in elasticity problems. Computers and Structures, 1980, 11, 289-295.	2.4	20
28	On the simultaneous determination of zeros of analytic or sectionally analytic functions. Computing (Vienna/New York), 1986, 36, 239-247.	3.2	20
29	Quadrature Methods for the Determination of Zeros of Transcendental Functions - A Review. , 1987, , 61-82.		20
30	The symmetrically branched crack in an infinite elastic medium. Zeitschrift Fur Angewandte Mathematik Und Physik, 1976, 27, 801-814.	0.7	19
31	Doubly-periodic array of cracks in an infinite isotropic medium. Journal of Elasticity, 1978, 8, 157-169.	0.9	19
32	Two methods for the numerical solution of Bueckner's singular integral equation for plane elasticity crack problems. Computer Methods in Applied Mechanics and Engineering, 1982, 31, 169-177.	3.4	19
33	Exact expression for a two-dimensional finite-part integral appearing during the numerical solution of crack problems in three-dimensional elasticity. Communications in Applied Numerical Methods, 1985, 1, 183-189.	0.5	19
34	Mode I stress intensity factors at corner points in plane elastic media. Engineering Fracture Mechanics, 1980, 13, 699-708.	2.0	18
35	Mangler-type principal value integrals in hypersingular integral equations for crack problems in plane elasticity. Engineering Fracture Mechanics, 1988, 31, 895-898.	2.0	18
36	The problem of the simple smooth crack in an infinite anisotropic elastic medium. International Journal of Solids and Structures, 1977, 13, 269-278.	1.3	16

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37	Validity of the hypersingular integral equation of crack problems in three-dimensional elasticity along the crack boundaries. <i>Engineering Fracture Mechanics</i> , 1987, 26, 783-788.	2.0	16
38	Two-dimensional principal value hypersingular integrals for crack problems in three-dimensional elasticity. <i>Acta Mechanica</i> , 1990, 82, 129-134.	1.1	16
39	A note on stress intensity factors for single edge V-notched plates in tension. <i>Engineering Fracture Mechanics</i> , 1978, 10, 685-686.	2.0	15
40	A new method for the numerical solution of singular integral equations appearing in crack and other elasticity problems. <i>Acta Mechanica</i> , 1981, 39, 117-125.	1.1	15
41	Application of computer algebra to the iterative solution of singular integral equations. <i>Computer Methods in Applied Mechanics and Engineering</i> , 1992, 94, 229-237.	3.4	15
42	Symbolic computations: A powerful method for the solution of crack problems in fracture mechanics. <i>International Journal of Fracture</i> , 1990, 43, R39-R42.	1.1	14
43	Application of quantifier elimination to a simple elastic beam finite element below a straight rigid obstacle. <i>Mechanics Research Communications</i> , 1995, 22, 271-278.	1.0	14
44	Quantifier elimination in applied mechanics problems with cylindrical algebraic decomposition. <i>International Journal of Solids and Structures</i> , 1997, 34, 4037-4070.	1.3	14
45	The problem of interaction between a misfitting inclusion and a crack in an infinite elastic medium. <i>Journal of Elasticity</i> , 1979, 9, 97-103.	0.9	13
46	Cauchy-type integrals and integral equations with logarithmic singularities. <i>Journal of Engineering Mathematics</i> , 1979, 13, 63-74.	0.6	13
47	Application of the optical method of pseudocaustics to locating crack tips in plane elasticity problems. <i>International Journal of Fracture</i> , 1983, 23, R117-R120.	1.1	13
48	Computer-based manipulation of systems of equations in elasticity problems with Gr�bner bases. <i>Computer Methods in Applied Mechanics and Engineering</i> , 1993, 110, 103-111.	3.4	13
49	A simple method for the photoelastic determination of mode I stress intensity factors. <i>Engineering Fracture Mechanics</i> , 1978, 10, 677-684.	2.0	12
50	Stress intensity factors at crack tips near boundaries or other geometrical discontinuities. <i>International Journal of Fracture</i> , 1979, 15, 419-428.	1.1	12
51	The method of pseudocaustics for the experimental solution of simple elasticity problems. <i>International Journal of Mechanical Sciences</i> , 1981, 23, 17-29.	3.6	12
52	An iterative algorithm for the numerical solution of singular integral equations. <i>Journal of Computational Physics</i> , 1981, 43, 164-176.	1.9	12
53	Locating a straight crack in an infinite elastic medium by using complex path-independent integrals. <i>Acta Mechanica</i> , 1985, 57, 241-246.	1.1	12
54	Application of complex path-independent integrals to the solution of the problem of a straight crack in a finite plane isotropic elastic medium. <i>Journal of Elasticity</i> , 1986, 16, 441-456.	0.9	12

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55	Chebyshev approximations to stress intensity factors: An application of $\hat{\epsilon}$ -DERIVE $\hat{\epsilon}$ ™. Communications in Applied Numerical Methods, 1991, 7, 289-293.	0.5	12
56	Symbolic computations for the solution of inverse/design problems with Maple. Computers and Structures, 1994, 53, 63-68.	2.4	12
57	Inequality constraints in one-dimensional finite elements for an elastic beam on a tensionless Winkler foundation. Finite Elements in Analysis and Design, 1996, 24, 67-75.	1.7	12
58	The second fundamental crack problem and the rigid line inclusion problem in plane elasticity. Acta Mechanica, 1979, 34, 51-61.	1.1	11
59	A new method for obtaining exact analytical formulae for the roots of transcendental functions. Letters in Mathematical Physics, 1984, 8, 135-143.	0.5	11
60	A new simple method for the analytical solution of Kepler's equation. Celestial Mechanics, 1985, 35, 305-316.	0.1	11
61	A modification of the delves-lyness method for locating the zeros of analytic functions. Journal of Computational Physics, 1985, 59, 490-492.	1.9	11
62	A Star-Shaped Array of Curvilinear Cracks in an Infinite Isotropic Elastic Medium. Journal of Applied Mechanics, Transactions ASME, 1977, 44, 619-624.	1.1	10
63	The gauss-hermite numerical integration method for the solution of the plane elastic problem of semi-infinite periodic cracks. International Journal of Engineering Science, 1977, 15, 271-280.	2.7	10
64	Remarks on the Gauss quadrature rule for a particular class of finite-part integrals. International Journal for Numerical Methods in Engineering, 1995, 38, 2433-2448.	1.5	10
65	A method of solution of the problem of the unsymmetric cruciform crack in an infinite plane isotropic elastic medium. Acta Mechanica, 1978, 29, 127-133.	1.1	9
66	A natural interpolation formula for the numerical solution of singular integral equations with hilbert kernel. BIT Numerical Mathematics, 1983, 23, 92-104.	1.0	9
67	On the Numerical Evaluation of a Class of Finite-part Integrals. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 1983, 63, 572-574.	0.9	9
68	Semi-numerical iterative series solution of linear algebraic equations with $\hat{\epsilon}$ -MATHEMATICA $\hat{\epsilon}$ ™. Communications in Applied Numerical Methods, 1992, 8, 421-429.	0.5	9
69	Inequality constraints in rectangular finite/boundary elements. Computers and Structures, 1996, 60, 415-431.	2.4	9
70	An improvement of Kalandiya's theorem. Journal of Approximation Theory, 1983, 38, 354-356.	0.5	8
71	A natural interpolation formula for Prandtl's singular integrodifferential equation. International Journal for Numerical Methods in Fluids, 1984, 4, 283-290.	0.9	8
72	Application of mathematica to the direct semi-numerical solution of finite element problems. Computers and Structures, 1992, 45, 833-839.	2.4	8

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73	Application of mathematica to the direct solution of torsion problems by the energy method. Computers and Structures, 1992, 43, 803-807.	2.4	8
74	Derivation of the equation of caustics in cartesian coordinates with maple. Engineering Fracture Mechanics, 1994, 48, 147-149.	2.0	8
75	Application of GrÅbner bases to problems of movement of a particle. Computers and Mathematics With Applications, 1994, 27, 51-57.	1.4	8
76	GrÅbner bases in truss problems with maple. Computers and Structures, 1994, 52, 1093-1096.	2.4	8
77	Conditions for contact/lack of contact along a loaded simple straight crack in plane isotropic elasticity. Engineering Fracture Mechanics, 1997, 56, 675-689.	2.0	8
78	Derivation of conditions of complete contact for a beam on a tensionless Winkler elastic foundation with Mathematica. Mechanics Research Communications, 2016, 72, 64-73.	1.0	8
79	On the determination of stress-optical constants by the method of reflected caustics. Journal Physics D: Applied Physics, 1979, 12, 497-504.	1.3	7
80	Numerical determination of a class of generalized stress intensity factors. International Journal for Numerical Methods in Engineering, 1979, 14, 949-959.	1.5	7
81	A remark on the numerical evaluation of stress intensity factors by the method of singular integral equations. International Journal for Numerical Methods in Engineering, 1979, 14, 1710-1714.	1.5	7
82	The practical evaluation of stress intensity factors at semi-infinite crack tips. Engineering Fracture Mechanics, 1980, 13, 31-42.	2.0	7
83	Three iterative methods for the numerical determination of stress intensity factors. Engineering Fracture Mechanics, 1981, 14, 557-564.	2.0	7
84	Upper bounds for the stress intensity factors along the boundaries of interacting coplanar cracks in three-dimensional elasticity. Engineering Fracture Mechanics, 1982, 16, 821-826.	2.0	7
85	On the validity of the singular integral equations of crack problems at the crack tips. Acta Mechanica, 1983, 48, 185-191.	1.1	7
86	Closed-form solution of the equations of caustics about cracks in fracture mechanics. Journal of the Franklin Institute, 1984, 317, 27-33.	1.9	7
87	Application of the Cauchy theorem to the location of zeros of sectionally analytic functions. Zeitschrift Fur Angewandte Mathematik Und Physik, 1984, 35, 705-711.	0.7	7
88	Application of the generalized Siewert-Burniston method to locating zeros and poles of meromorphic functions. Zeitschrift Fur Angewandte Mathematik Und Physik, 1985, 36, 733-742.	0.7	7
89	A new interpretation of Cauchy type singular integrals with an application to singular integral equations. Journal of Computational and Applied Mathematics, 1986, 14, 271-278.	1.1	7
90	A unified Riemann-Hilbert approach to the analytical determination of zeros of sectionally analytic functions. Journal of Mathematical Analysis and Applications, 1988, 129, 134-141.	0.5	7

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91	Application of the Green and the Rayleigh-Green reciprocal identities to path-independent integrals in two- and three-dimensional elasticity. <i>Acta Mechanica</i> , 1993, 98, 99-106.	1.1	7
92	Determination of critical buckling loads with Gr�bner bases. <i>Computers and Structures</i> , 1995, 55, 433-440.	2.4	7
93	Numerical solution of Cauchy type singular integral equations by use of the Lobatto-Jacobi numerical integration rule. <i>Applications of Mathematics</i> , 1978, 23, 439-452.	0.9	7
94	On the photoelastic determination of complex stress intensity factors. <i>Engineering Fracture Mechanics</i> , 1979, 12, 463-468.	2.0	6
95	On the application of numerical integration rules to the solution of some singular integral equations. <i>Computer Methods in Applied Mechanics and Engineering</i> , 1980, 24, 1-11.	3.4	6
96	A method for the numerical solution of singular integral equations with logarithmic singularities. <i>International Journal of Computer Mathematics</i> , 1981, 9, 363-372.	1.0	6
97	A modification of the classical quadrature method for locating zeros of analytic functions. <i>BIT Numerical Mathematics</i> , 1985, 25, 681-686.	1.0	6
98	A new, simple approach to the derivation of exact analytical formulae for the zeros of analytic functions. <i>Applied Mathematics and Computation</i> , 1985, 17, 123-127.	1.4	6
99	Determination of the order of singularity at the apex of a wedge-shaped crack. <i>Engineering Fracture Mechanics</i> , 1985, 22, 369-373.	2.0	6
100	On the Gaussian quadrature rule for finite-part integrals with a first-order singularity. <i>Communications in Applied Numerical Methods</i> , 1986, 2, 123-132.	0.5	6
101	On the location of straight discontinuity intervals of arbitrary sectionally analytic functions by using complex path-independent integrals. <i>Computer Methods in Applied Mechanics and Engineering</i> , 1987, 65, 165-176.	3.4	6
102	The successive approximations method for the airfoil equation. <i>Journal of Computational and Applied Mathematics</i> , 1988, 21, 231-238.	1.1	6
103	Symbolic derivation of the equations of caustics about a crack tip. <i>Acta Mechanica</i> , 1990, 82, 231-237.	1.1	6
104	Generalized Mangler-type principal value integrals with an application to fracture mechanics. <i>Journal of Computational and Applied Mathematics</i> , 1990, 30, 227-234.	1.1	6
105	The crack tip elastic stress field using computer algebra software. <i>Engineering Fracture Mechanics</i> , 1991, 38, 95-100.	2.0	6
106	Minimax approximation to stress intensity factors with mathematica. <i>Computers and Structures</i> , 1992, 43, 181-183.	2.4	6
107	Lack-of-contact conditions for a penny-shaped crack under a polynomial normal loading. <i>Acta Mechanica</i> , 1996, 117, 229-235.	1.1	6
108	Fracture initiation at an elastic crack tip: A computational implementation of the T-criterion. <i>International Journal of Fracture</i> , 1999, 98, 293-311.	1.1	6

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109	On the numerical solution of Cauchy type singular integral equations by the collocation method. Applied Mathematics and Computation, 1983, 12, 49-60.	1.4	5
110	A modification of the quadrature method for the direct numerical solution of singular integral equations. Computer Methods in Applied Mechanics and Engineering, 1984, 46, 1-13.	3.4	5
111	A new approach to the derivation of exact analytical formulae for the zeros of sectionally analytic functions. Journal of Mathematical Analysis and Applications, 1985, 112, 104-109.	0.5	5
112	Location of boundary contours and discontinuity arcs, of known shape and conditions, of analytic functions by using contour integrals. Journal of Computational and Applied Mathematics, 1989, 25, 315-326.	1.1	5
113	Application of the conformal mapping and the complex path-independent integrals to the location of elliptical holes and inclusions in plane elasticity problems. Computer Methods in Applied Mechanics and Engineering, 1990, 84, 1-14.	3.4	5
114	The location of discontinuity intervals of sectionally analytic functions: Application to the interface crack problem. Computers and Mathematics With Applications, 1991, 21, 69-74.	1.4	5
115	Application of MATHEMATICA to the iterative SAN solution of singular integral equations appearing in crack problems. Advances in Engineering Software, 1992, 14, 151-156.	1.8	5
116	Direct Taylor-series solution of singular integral equations with MAPLE. Computers and Structures, 1992, 45, 613-617.	2.4	5
117	Locating a crack of arbitrary but known shape by the method of path-independent integrals. International Journal of Solids and Structures, 1993, 30, 1939-1956.	1.3	5
118	Solution of plane elasticity problems with Mathematica. Computers and Structures, 1995, 55, 229-236.	2.4	5
119	Deciding in elasticity problems by using Sturm's theorem. Computers and Structures, 1996, 58, 123-131.	2.4	5
120	Classical numerical methods in engineering: a note on existential quantifier elimination under parametric inequality constraints. Communications in Numerical Methods in Engineering, 1998, 14, 103-134.	1.3	5
121	Application of quantifier elimination to inverse buckling problems. Acta Mechanica, 2017, 228, 3709-3724.	1.1	5
122	On the numerical evaluation of singular integrals in interface separation problems. Journal of Sound and Vibration, 1980, 69, 167-172.	2.1	4
123	A natural interpolation formula for Cauchy-type singular integral equations with generalized kernels. Journal of Computational Physics, 1982, 48, 117-126.	1.9	4
124	Location of essential singularities of a class of analytic functions. International Journal of Computer Mathematics, 1988, 25, 129-138.	1.0	4
125	Construction of singular integral equations for interacting straight cracks by using reduce. Engineering Fracture Mechanics, 1991, 40, 1179-1184.	2.0	4
126	The Gauss-Laguerre quadrature rule for finite-part integrals. Communications in Numerical Methods in Engineering, 1993, 9, 439-450.	1.3	4

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127	Automatic derivation of positivity conditions inside boundary elements with the help of the REDLOG computer logic package. <i>Engineering Analysis With Boundary Elements</i> , 1999, 23, 847-856.	2.0	4
128	Finite differences/elements in classical beam problems: derivation of feasibility conditions under parametric inequality constraints with the help of Reduce and REDLOG. <i>Computational Mechanics</i> , 2001, 27, 145-153.	2.2	4
129	On the solution of the problem of a curvilinear crack in a finite plane elastic medium. <i>International Journal of Fracture</i> , 1979, 15, R7-R10.	1.1	3
130	The method of caustics for the determination of normal loads acting on surfaces of elastic bodies. <i>Journal of Strain Analysis for Engineering Design</i> , 1980, 15, 37-41.	1.0	3
131	Some remarks on the numerical solution of cauchy-type singular integral equations with index equal to $\alpha \in]1, \infty[$. <i>Computers and Structures</i> , 1981, 14, 403-407.	2.4	3
132	Application of the Gauss-Laguerre and Radau-Laguerre quadrature rules to the numerical solution of cauchy type singular integral equations. <i>Computers and Structures</i> , 1981, 14, 63-70.	2.4	3
133	A remark on the application of closed and semi-closed quadrature rules to the direct numerical solution of singular integral equations. <i>Journal of Computational Physics</i> , 1981, 42, 396-402.	1.9	3
134	Bounds for the dislocation densities and the stress intensity factors in elastic crack problems. <i>International Journal of Fracture</i> , 1982, 20, 133-145.	1.1	3
135	A strange convergence property of the lobatto-chebyshev method for the numerical determination of stress intensity factors. <i>Computers and Structures</i> , 1983, 17, 205-209.	2.4	3
136	A Remark on Singular Integral Equations with Generalized Kernels. <i>SIAM Journal on Applied Mathematics</i> , 1984, 44, 1106-1111.	0.8	3
137	Singular loadings in elasticity problems and singular solutions of the corresponding integral equations. <i>Journal of Elasticity</i> , 1985, 15, 325-333.	0.9	3
138	A simple quadrature-type method for the computation of real zeros of analytic functions in finite intervals. <i>BIT Numerical Mathematics</i> , 1985, 25, 242-249.	1.0	3
139	Two elementary analytical formulae for roots of nonlinear equations. <i>Applicable Analysis</i> , 1985, 20, 73-77.	0.6	3
140	Determination of poles of sectionally meromorphic functions. <i>Journal of Computational and Applied Mathematics</i> , 1986, 15, 323-327.	1.1	3
141	An elementary noniterative quadrature-type method for the numerical solution of a nonlinear equation. <i>Computing (Vienna/New York)</i> , 1986, 37, 269-275.	3.2	3
142	Application of the gaus quadrature rule to the numerical solution of nonlinear equations. <i>International Journal of Computer Mathematics</i> , 1986, 18, 311-322.	1.0	3
143	Application of Betti's reciprocal work theorem to the construction of the hypersingular integral equation of a plane crack in three-dimensional elasticity. <i>Journal of Elasticity</i> , 1987, 18, 165-171.	0.9	3
144	Constructing elementary databases and using mechanics-related functions and object types in fracture mechanics with mathematica. <i>Computers and Structures</i> , 1993, 47, 233-238.	2.4	3

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145	Application of computer-generated finite-difference equations to decision and inverse problems in elasticity. <i>Computers and Structures</i> , 1998, 68, 529-541.	2.4	3
146	Derivation of feasibility conditions in engineering problems under parametric inequality constraints with classical Fourier elimination. <i>International Journal for Numerical Methods in Engineering</i> , 2000, 48, 1583-1599.	1.5	3
147	Caustics, pseudocaustics and the related illuminated and dark regions with the computational method of quantifier elimination. <i>Optics and Lasers in Engineering</i> , 2017, 88, 280-300.	2.0	3
148	The energy method in problems of buckling of bars with quantifier elimination. <i>Structures</i> , 2018, 13, 47-65.	1.7	3
149	Application of the method of singular integral equations to elasticity problems with concentrated loads. <i>Acta Mechanica</i> , 1981, 40, 159-168.	1.1	2
150	A remark on the direct numerical determination of stress intensity factors at crack tips. <i>International Journal for Numerical Methods in Engineering</i> , 1982, 18, 1416-1419.	1.5	2
151	A natural quadrature formula for the numerical evaluation of the Macgregor-Westergaard complex potentials es crack problems. <i>Computer Methods in Applied Mechanics and Engineering</i> , 1982, 31, 221-231.	3.4	2
152	Two upper bounds for the values of stress intensity factors when estimated by experimental optical methods. <i>International Journal of Fracture</i> , 1982, 19, R16-R20.	1.1	2
153	Simple bounds for the stress intensity factors by the method of singular integral equations. <i>Engineering Fracture Mechanics</i> , 1983, 18, 1191-1198.	2.0	2
154	On the experimental solution of plane elasticity problems by the method of caustics. <i>International Journal of Mechanical Sciences</i> , 1983, 25, 217-218.	3.6	2
155	The inversion of the first equation of caustics. <i>International Journal of Fracture</i> , 1985, 29, R11-R12.	1.1	2
156	Numerical estimation of the coefficient of the homogenous Riemann-Hilbert problem on the basis of boundary data. <i>Applied Mathematics and Computation</i> , 1991, 41, 21-33.	1.4	2
157	Application of complex path-independent integrals to problems of bending of thin elastic plates. <i>Archive of Applied Mechanics</i> , 1992, 62, 248-255.	1.2	2
158	Treatment of the "pole" at infinity in classical numerical integration with computer algebra software. <i>International Journal of Computer Mathematics</i> , 1993, 49, 75-83.	1.0	2
159	Computer-generated formulae for the location of straight cracks. <i>Engineering Fracture Mechanics</i> , 1995, 51, 847-850.	2.0	2
160	Computer-aided quantifier elimination in crack problems under constraints for the stress intensity factors. <i>Engineering Fracture Mechanics</i> , 1995, 52, 571-574.	2.0	2
161	The equation of caustics in cartesian coordinates for mixed-mode stress intensity factors. <i>Engineering Fracture Mechanics</i> , 1996, 54, 441-443.	2.0	2
162	A numerical replacement of computer algebra methods for the derivation of polynomial equations in mechanics. <i>Advances in Engineering Software</i> , 1997, 28, 539-547.	1.8	2

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163	Application of quantifier elimination to mixed-mode fracture criteria in crack problems. <i>Archive of Applied Mechanics</i> , 2017, 87, 1567-1604.	1.2	2
164	Application of the method of caustics to the determination of the ratio of Poisson's ratio to the modulus of elasticity. <i>Journal Physics D: Applied Physics</i> , 1979, 12, 1321-1324.	1.3	1
165	A new class of approximate formulas for the evaluation of stress intensity factors. <i>International Journal of Fracture</i> , 1980, 16, R143-R146.	1.1	1
166	On the validity of the singular integral equations of elasticity problems at points of loading discontinuities. <i>Acta Mechanica</i> , 1983, 50, 127-134.	1.1	1
167	A remark on the solution of the integral equation of planar cracks in three-dimensional elasticity. <i>Engineering Fracture Mechanics</i> , 1983, 18, 1199-1200.	2.0	1
168	On kalandiya's method for the numerical solution of singular integral equations. <i>International Journal of Computer Mathematics</i> , 1983, 13, 287-299.	1.0	1
169	A remark on the application of interpolatory quadrature rules to the numerical solution of singular integral equations. <i>Journal of Computational and Applied Mathematics</i> , 1984, 11, 267-276.	1.1	1
170	Analytical solution of the Lagrange quintic equation in the three-body problem in celestial mechanics. <i>Acta Mechanica</i> , 1985, 55, 267-272.	1.1	1
171	Application of quadrature rules to the determination of plane equipotential lines and other curves defined by Harmonic functions. <i>Applied Mathematics and Computation</i> , 1988, 27, 147-154.	1.4	1
172	A new class of quite elementary closed-form integral formulae for roots of nonlinear equations. <i>Applied Mathematics and Computation</i> , 1989, 29, 185-196.	1.4	1
173	Elementary real path-dependent integrals for the accurate evaluation of stress intensity factors at a class of straight crack tips. <i>Engineering Fracture Mechanics</i> , 1990, 37, 685-689.	2.0	1
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