Nikolaos I Ioakimidis

List of Publications by Year
in descending order

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193	2,248	304368	315357
papers	citations	22 h-index	38 g-index

195	195	195	336
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The energy method in problems of buckling of bars with quantifier elimination. Structures, 2018, 13, 47-65.	1.7	3
2	Application of quantifier elimination to mixed-mode fracture criteria in crack problems. Archive of Applied Mechanics, 2017, 87, 1567-1604.	1.2	2
3	Application of quantifier elimination to inverse buckling problems. Acta Mechanica, 2017, 228, 3709-3724.	1.1	5
4	Caustics, pseudocaustics and the related illuminated and dark regions with the computational method of quantifier elimination. Optics and Lasers in Engineering, 2017, 88, 280-300.	2.0	3
5	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
6	Quantifier-Free Formulae for Inequality Constraints Inside Boundary Elements. , 2009, , 209-222.		1
7	Finite differences/elements in classical beam problems: derivation of feasibility conditions under parametric inequality constraints with the help of Reduce and REDLOG. Computational Mechanics, 2001, 27, 145-153.	2.2	4
8	On the efficient computation of the stress components near a closed boundary in plane elasticity by using classical complex boundary integral equations. International Journal for Numerical Methods in Engineering, 2000, 47, 1865-1885.	1.5	1
9	Derivation of feasibility conditions in engineering problems under parametric inequality constraints with classical Fourier elimination. International Journal for Numerical Methods in Engineering, 2000, 48, 1583-1599.	1.5	3
10	Automatic derivation of positivity conditions inside boundary elements with the help of the REDLOG computer logic package. Engineering Analysis With Boundary Elements, 1999, 23, 847-856.	2.0	4
11	Fracture initiation at an elastic crack tip: A computational implementation of the T-criterion. International Journal of Fracture, 1999, 98, 293-311.	1.1	6
12	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
13	Application of computer-generated finite-difference equations to decision and inverse problems in elasticity. Computers and Structures, 1998, 68, 529-541.	2.4	3
14	A numerical replacement of computer algebra methods for the derivation of polynomial equations in mechanics. Advances in Engineering Software, 1997, 28, 539-547.	1.8	2
15	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
16	Quantifier elimination in applied mechanics problems with cylindrical algebraic decomposition. International Journal of Solids and Structures, 1997, 34, 4037-4070.	1.3	14
17	Lack-of-contact conditions for a penny-shaped crack under a polynomial normal loading. Acta Mechanica, 1996, 117, 229-235.	1.1	6
18	Annihilation of loading parameters in classical numerical methods with differential equations. Computers and Structures, 1996, 59, 265-271.	2.4	1

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19	The equation of caustics in cartesian coordinates for mixed-mode stress intensity factors. Engineering Fracture Mechanics, 1996, 54, 441-443.	2.0	2
20	Deciding in elasticity problems by using Sturm's theorem. Computers and Structures, 1996, 58, 123-131.	2.4	5
21	Inequality constraints in rectangular finite/boundary elements. Computers and Structures, 1996, 60, 415-431.	2.4	9
22	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
23	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
24	Computer-generated formulae for the location of straight cracks. Engineering Fracture Mechanics, 1995, 51, 847-850.	2.0	2
25	Computer-aided quantifier elimination in crack problems under constraints for the stress intensity factors. Engineering Fracture Mechanics, 1995, 52, 571-574.	2.0	2
26	Solution of plane elasticity problems with Mathematica. Computers and Structures, 1995, 55, 229-236.	2.4	5
27	Application of quantifier elimination to a simple elastic beam finite element below a straight rigid obstacle. Mechanics Research Communications, 1995, 22, 271-278.	1.0	14
28	Determination of critical buckling loads with GrÃ¶bner bases. Computers and Structures, 1995, 55, 433-440.	2.4	7
29	Symbolic computations for the solution of inverse/design problems with Maple. Computers and Structures, 1994, 53, 63-68.	2.4	12
30	On the evaluation of stress intensity factors for a simple crack under parametric loading. Computers and Structures, 1994, 51, 791-794.	2.4	1
31	Derivation of the equation of caustics in cartesian coordinates with maple. Engineering Fracture Mechanics, 1994, 48, 147-149.	2.0	8
32	Application of GrÃ¶bner bases to problems of movement of a particle. Computers and Mathematics With Applications, 1994, 27, 51-57.	1.4	8
33	Various theoretical applications of the maximum modulus principle to the experimental method of caustics. Mechanics Research Communications, 1994, 21, 509-516.	1.0	0
34	GrÃ¶bner bases in truss problems with maple. Computers and Structures, 1994, 52, 1093-1096.	2.4	8
35	The Gauss-Laguerre quadrature rule for finite-part integrals. Communications in Numerical Methods in Engineering, 1993, 9, 439-450.	1.3	4
36	Computer-based manipulation of systems of equations in elasticity problems with GrÃ¶bner bases. Computer Methods in Applied Mechanics and Engineering, 1993, 110, 103-111.	3.4	13

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37	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
38	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
39	Application of the Green and the Rayleigh-Green reciprocal identities to path-independent integrals in two- and three-dimensional elasticity. Acta Mechanica, 1993, 98, 99-106.	1.1	7
40	Constructing elementary databases and using mechanics-related functions and object types in fracture mechanics with mathematica. Computers and Structures, 1993, 47, 233-238.	2.4	3
41	Treatment of the â€˜poleâ€™ at infinity in classical numerical integration with computer algebra software. International Journal of Computer Mathematics, 1993, 49, 75-83.	1.0	2
42	Application of complex path-independent integrals to problems of bending of thin elastic plates. Archive of Applied Mechanics, 1992, 62, 248-255.	1.2	2
43	Application of computer algebra to the iterative solution of singular integral equations. Computer Methods in Applied Mechanics and Engineering, 1992, 94, 229-237.	3.4	15
44	Application of mathematica to the direct semi-numerical solution of finite element problems. Computers and Structures, 1992, 45, 833-839.	2.4	8
45	Minimax approximation to stress intensity factors with mathematica. Computers and Structures, 1992, 43, 181-183.	2.4	6
46	Application of mathematica to the direct solution of torsion problems by the energy method. Computers and Structures, 1992, 43, 803-807.	2.4	8
47	Computation of the orders of singularity of sectionally analytic functions. Applied Mathematics and Computation, 1992, 48, 13-19.	1.4	1
48	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
49	Direct Taylor-series solution of singular integral equations with MAPLE. Computers and Structures, 1992, 45, 613-617.	2.4	5
50	Derivation of the singular integral equations for curvilinear cracks with computer algebra software. Engineering Fracture Mechanics, 1992, 43, 671-676.	2.0	0
51	Semi-numerical iterative series solution of linear algebraic equations with â€˜MATHEMATICAâ€™. Communications in Applied Numerical Methods, 1992, 8, 421-429.	0.5	9
52	Application of Computer Algebra Software to the Derivation of Numerical Integration Rules for Singular and Hypersingular Integrals. , 1992, , 121-131.		0
53	Construction of the equation of caustics in dynamic plane elasticity problems with the help of reduce. Computers and Structures, 1991, 41, 407-409.	2.4	1
54	Numerical estimation of the coefficient of the homogenous Riemann-Hilbert problem on the basis of boundary data. Applied Mathematics and Computation, 1991, 41, 21-33.	1.4	2

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55	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
56	Orders of singularity at wedge apices: The computer algebra approach. Engineering Fracture Mechanics, 1991, 38, 349-352.	2.0	0
57	Construction of singular integral equations for interacting straight cracks by using reduce. Engineering Fracture Mechanics, 1991, 40, 1179-1184.	2.0	4
58	The crack tip elastic stress field using computer algebra software. Engineering Fracture Mechanics, 1991, 38, 95-100.	2.0	6
59	Chebyshev approximations to stress intensity factors: An application of â€˜DERIVEâ€™. Communications in Applied Numerical Methods, 1991, 7, 289-293.	0.5	12
60	Application of derive to conformal mapping techniques in plane elasticity problems. Computers and Structures, 1991, 41, 403-406.	2.4	1
61	Numerical evaluation of analytic functions by Cauchy's theorem. BIT Numerical Mathematics, 1991, 31, 276-285.	1.0	21
62	Two-dimensional principal value hypersingular integrals for crack problems in three-dimensional elasticity. Acta Mechanica, 1990, 82, 129-134.	1.1	16
63	Symbolic derivation of the equations of caustics about a crack tip. Acta Mechanica, 1990, 82, 231-237.	1.1	6
64	Elementary real path-dependent integrals for the accurate evaluation of stress intensity factors at a class of straight crack tips. Engineering Fracture Mechanics, 1990, 37, 685-689.	2.0	1
65	Application of Betti's reciprocal work theorem to the location of cracks in three-dimensional elasticity. International Journal of Fracture, 1990, 42, R75-R77.	1.1	0
66	Symbolic computations: A powerful method for the solution of crack problems in fracture mechanics. International Journal of Fracture, 1990, 43, R39-R42.	1.1	14
67	Hypersingular cauchy-type integrals in crack problems with hypersingular stress fields. International Journal of Fracture, 1990, 42, R33-R38.	1.1	0
68	Interaction of a moment with a crack tip for the determination of weight functions. Engineering Fracture Mechanics, 1990, 37, 681-684.	2.0	0
69	Generalized Mangler-type principal value integrals with an application to fracture mechanics. Journal of Computational and Applied Mathematics, 1990, 30, 227-234.	1.1	6
70	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
71	A hybrid method for the solution of crack problems based on the cauchy integral formula and the Riemann-Hilbert problem. Computers and Structures, 1990, 35, 729-732.	2.4	0
72	A new class of quite elementary closed-form integral formulae for roots of nonlinear equations. Applied Mathematics and Computation, 1989, 29, 185-196.	1.4	1

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73	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
74	On Kutt's Gaussian quadrature rule for finite-part integrals. Applied Numerical Mathematics, 1989, 5, 209-213.	1.2	0
75	A theoretical bound for the modulus of the generalized stress intensity factor at an interface crack tip related to the method of caustics. International Journal of Fracture, 1989, 41, R3-R8.	1.1	0
76	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
77	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
78	Application of quadrature rules to the determination of plane equipotential lines and other curves defined by Harmonic functions. Applied Mathematics and Computation, 1988, 27, 147-154.	1.4	1
79	The successive approximations method for the airfoil equation. Journal of Computational and Applied Mathematics, 1988, 21, 231-238.	1.1	6
80	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
81	Location of essential singularities of a class of analytic functions. International Journal of Computer Mathematics, 1988, 25, 129-138.	1.0	4
82	Quadrature Methods for the Determination of Zeros of Transcendental Functions - A Review. , 1987, , 61-82.		20
83	On the location of straight discontinuity intervals of arbitrary sectionally analytic functions by using complex path-independent integrals. Computer Methods in Applied Mechanics and Engineering, 1987, 65, 165-176.	3.4	6
84	Application of Betti's reciprocal work theorem to the construction of the hypersingular integral equation of a plane crack in three-dimensional elasticity. Journal of Elasticity, 1987, 18, 165-171.	0.9	3
85	Validity of the hypersingular integral equation of crack problems in three-dimensional elasticity along the crack boundaries. Engineering Fracture Mechanics, 1987, 26, 783-788.	2.0	16
86	On the Gaussian quadrature rule for finite-part integrals with a first-order singularity. Communications in Applied Numerical Methods, 1986, 2, 123-132.	0.5	6
87	Determination of poles of sectionally meromorphic functions. Journal of Computational and Applied Mathematics, 1986, 15, 323-327.	1.1	3
88	Application of complex path-independent integrals to the solution of the problem of a straight crack in a finite plane isotropic elastic medium. Journal of Elasticity, 1986, 16, 441-456.	0.9	12
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	On the simultaneous determination of zeros of analytic or sectionally analytic functions. Computing (Vienna/New York), 1986, 36, 239-247.	3.2	20

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91	An elementary noniterative quadrature-type method for the numerical solution of a nonlinear equation. Computing (Vienna/New York), 1986, 37, 269-275.	3.2	3
92	Application of the gaus quadrature rule to the numberical solution of nonlinear equations. International Journal of Computer Mathematics, 1986, 18, 311-322.	1.0	3
93	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
94	The inversion of the first equation of caustics. International Journal of Fracture, 1985, 29, R11-R12.	1.1	2
95	Further possibilities of application of the method of caustics. International Journal of Fracture, 1985, 29, R13-R15.	1.1	0
96	Singular loadings in elasticity problems and singular solutions of the corresponding integral equations. Journal of Elasticity, 1985, 15, 325-333.	0.9	3
97	A new simple method for the analytical solution of Kepler's equation. Celestial Mechanics, 1985, 35, 305-316.	0.1	11
98	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
99	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
100	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
101	Analytical solution of the Lagrange quintic equation in the three-body problem in celestial mechanics. Acta Mechanica, 1985, 55, 267-272.	1.1	1
102	Locating a straight crack in an infinite elastic medium by using complex path-independent integrals. Acta Mechanica, 1985, 57, 241-246.	1.1	12
103	A simple quadrature-type method for the computation of real zeros of analytic functions in finite intervals. BIT Numerical Mathematics, 1985, 25, 242-249.	1.0	3
104	A modification of the classical quadrature method for locating zeros of analytic functions. BIT Numerical Mathematics, 1985, 25, 681-686.	1.0	6
105	A new, simple approach to the derivation of exact analytical formulae for the zeros of analytic functions. Applied Mathematics and Computation, 1985, 17, 123-127.	1.4	6
106	Determination of the order of singularity at the apex of a wedge-shaped crack. Engineering Fracture Mechanics, 1985, 22, 369-373.	2.0	6
107	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
108	Two elementary analytical formulae for roots of nonlinear equations. Applicable Analysis, 1985, 20, 73-77.	0.6	3

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109	A generalization of the Siewertâ€“Burniston method for the determination of zeros of analytic functions. Journal of Mathematical Physics, 1984, 25, 2422-2425.	0.5	21
110	A modified algorithm for the numerical solution of singular integral equations with index equal to 1. International Journal of Computer Mathematics, 1984, 15, 65-75.	1.0	0
111	A remark on the application of interpolatory quadrature rules to the numerical solution of singular integral equations. Journal of Computational and Applied Mathematics, 1984, 11, 267-276.	1.1	1
112	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
113	A natural interpolation formula for Prandtl's singular integrodifferential equation. International Journal for Numerical Methods in Fluids, 1984, 4, 283-290.	0.9	8
114	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
115	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
116	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
117	A Remark on Singular Integral Equations with Generalized Kernels. SIAM Journal on Applied Mathematics, 1984, 44, 1106-1111.	0.8	3
118	On the validity of the singular integral equations of crack problems at the crack tips. Acta Mechanica, 1983, 48, 185-191.	1.1	7
119	On the validity of the singular integral equations of elasticity problems at points of loading discontinuities. Acta Mechanica, 1983, 50, 127-134.	1.1	1
120	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
121	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
122	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
123	Application of the optical method of pseudocaustics to locating crack tips in plane elasticity problems. International Journal of Fracture, 1983, 23, R117-R120.	1.1	13
124	On the Numerical Evaluation of a Class of Finiteâ€Part Integrals. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 1983, 63, 572-574.	0.9	9
125	Simple bounds for the stress intensity factors by the method of singular integral equations. Engineering Fracture Mechanics, 1983, 18, 1191-1198.	2.0	2
126	A remark on the solution of the integral equation of planar cracks in three-dimensional elasticity. Engineering Fracture Mechanics, 1983, 18, 1199-1200.	2.0	1

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127	A strange convergence property of the lobatto-chebyshev method for the numerical determination of stress intensity factors. Computers and Structures, 1983, 17, 205-209.	2.4	3
128	On the experimental solution of plane elasticity problems by the method of caustics. International Journal of Mechanical Sciences, 1983, 25, 217-218.	3.6	2
129	An improvement of Kalandiya's theorem. Journal of Approximation Theory, 1983, 38, 354-356.	0.5	8
130	On kalandiyaâ€™ method for the numerical solution of singular integral equations. International Journal of Computer Mathematics, 1983, 13, 287-299.	1.0	1
131	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
132	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
133	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
134	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
135	A remark on the direct numerical determination of stress intensity factors at crack tips. International Journal for Numerical Methods in Engineering, 1982, 18, 1416-1419.	1.5	2
136	A natural quadrature formula for the numerical evaluation of the Macgregor-Westergaard complex potentials es crack problems. Computer Methods in Applied Mechanics and Engineering, 1982, 31, 221-231.	3.4	2
137	A natural interpolation formula for Cauchy-type singular integral equations with generalized kernels. Journal of Computational Physics, 1982, 48, 117-126.	1.9	4
138	Bounds for the dislocation densities and the stress intensity factors in elastic crack problems. International Journal of Fracture, 1982, 20, 133-145.	1.1	3
139	Two upper bounds for the values of stress intensity factors when estimated by experimental optical methods. International Journal of Fracture, 1982, 19, R16-R20.	1.1	2
140	A method for the numerical solution of singular integral equations with logarithmic singularities. International Journal of Computer Mathematics, 1981, 9, 363-372.	1.0	6
141	The method of pseudocaustics for the experimental solution of simple elasticity problems. International Journal of Mechanical Sciences, 1981, 23, 17-29.	3.6	12
142	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
143	Three iterative methods for the numerical determination of stress intensity factors. Engineering Fracture Mechanics, 1981, 14, 557-564.	2.0	7
144	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

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145	On the numerical evaluation of derivatives of Cauchy principal value integrals. Computing (Vienna/New York), 1981, 27, 81-88.	3.2	33
146	Some remarks on the numerical solution of cauchy-type singular integral equations with index equal to â€”1. Computers and Structures, 1981, 14, 403-407.	2.4	3
147	Application of the Gauss-Laguerre and Radau-Laguerre quadrature rules to the numerical solution of cauchy type singular integral equations. Computers and Structures, 1981, 14, 63-70.	2.4	3
148	An iterative algorithm for the numerical solution of singular integral equations. Journal of Computational Physics, 1981, 43, 164-176.	1.9	12
149	A remark on the application of closed and semi-closed quadrature rules to the direct numerical solution of singular integral equations. Journal of Computational Physics, 1981, 42, 396-402.	1.9	3
150	Application of the method of singular integral equations to elasticity problems with concentrated loads. Acta Mechanica, 1981, 40, 159-168.	1.1	2
151	A new method for the numerical solution of singular integral equations appearing in crack and other elasticity problems. Acta Mechanica, 1981, 39, 117-125.	1.1	15
152	Stress-Intensity Factors and Complex Path-Independent Integrals. Journal of Applied Mechanics, Transactions ASME, 1980, 47, 342-346.	1.1	22
153	On the numerical evaluation of singular integrals in interface separation problems. Journal of Sound and Vibration, 1980, 69, 167-172.	2.1	4
154	A new class of approximate formulas for the evaluation of stress intensity factors. International Journal of Fracture, 1980, 16, R143-R146.	1.1	1
155	On the numerical evaluation of two-dimensional principal value integrals. International Journal for Numerical Methods in Engineering, 1980, 15, 629-634.	1.5	46
156	Mode I stress intensity factors at corner points in plane elastic media. Engineering Fracture Mechanics, 1980, 13, 699-708.	2.0	18
157	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
158	The practical evaluation of stress intensity factors at semi-infinite crack tips. Engineering Fracture Mechanics, 1980, 13, 31-42.	2.0	7
159	A generalized crack problem in plane elasticity. International Journal of Engineering Science, 1980, 18, 491-499.	2.7	0
160	On the application of numerical integration rules to the solution of some singular integral equations. Computer Methods in Applied Mechanics and Engineering, 1980, 24, 1-11.	3.4	6
161	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
162	The method of caustics for the determination of normal loads acting on surfaces of elastic bodies. Journal of Strain Analysis for Engineering Design, 1980, 15, 37-41.	1.0	3

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163	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
164	On the numerical solution of singular integro-differential equations. Quarterly of Applied Mathematics, 1979, 37, 325-331.	0.5	30
165	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
166	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
167	Application of the method of caustics to the determination of the ratio of Poisson's ratio to the modulus of elasticity. Journal Physics D: Applied Physics, 1979, 12, 1321-1324.	1.3	1
168	On the photoelastic determination of complex stress intensity factors. Engineering Fracture Mechanics, 1979, 12, 463-468.	2.0	6
169	The equations of caustics for crack and other dynamic plane elasticity problems. Engineering Fracture Mechanics, 1979, 12, 613-615.	2.0	25
170	Numerical determination of a class of generalized stress intensity factors. International Journal for Numerical Methods in Engineering, 1979, 14, 949-959.	1.5	7
171	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
172	Stress intensity factors at crack tips near boundaries or other geometrical discontinuities. International Journal of Fracture, 1979, 15, 419-428.	1.1	12
173	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
174	The problem of interaction between a misfitting inclusion and a crack in an infinite elastic medium. Journal of Elasticity, 1979, 9, 97-103.	0.9	13
175	Cauchy-type integrals and integral equations with logarithmic singularities. Journal of Engineering Mathematics, 1979, 13, 63-74.	0.6	13
176	On the solution of the problem of a curvilinear crack in a finite plane elastic medium. International Journal of Fracture, 1979, 15, R7-R10.	1.1	3
177	The V-notched elastic half-plane problem. Acta Mechanica, 1979, 32, 125-140.	1.1	31
178	The second fundamental crack problem and the rigid line inclusion problem in plane elasticity. Acta Mechanica, 1979, 34, 51-61.	1.1	11
179	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
180	Doubly-periodic array of cracks in an infinite isotropic medium. Journal of Elasticity, 1978, 8, 157-169.	0.9	19

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181	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
182	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
183	A simple method for the photoelastic determination of mode I stress intensity factors. Engineering Fracture Mechanics, 1978, 10, 677-684.	2.0	12
184	A note on stress intensity factors for single edge V-notched plates in tension. Engineering Fracture Mechanics, 1978, 10, 685-686.	2.0	15
185	Numerical solution of Cauchy type singular integral equations by use of the Lobatto-Jacobi numerical integration rule. Applications of Mathematics, 1978, 23, 439-452.	0.9	7
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