

Juan Ramos

List of Publications by Year in descending order

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222
papers

2,294
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331670

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all docs

223
docs citations

223
times ranked

998
citing authors

#	ARTICLE	IF	CITATIONS
1	Smooth, cusped and sharp shock waves in a one-dimensional model of a microfluidic drop ensemble. International Journal of Numerical Methods for Heat and Fluid Flow, 2022, 32, 150-195.	2.8	0
2	Single- and double-kink solutions of a one-dimensional, viscoelastic generalization of Burgers's equation. International Journal of Numerical Methods for Heat and Fluid Flow, 2021, 31, 2862-2878.	2.8	1
3	Effect of the initial conditions on a one-dimensional model of small-amplitude wave propagation in shallow water. International Journal of Numerical Methods for Heat and Fluid Flow, 2020, 30, 4979-5014.	2.8	2
4	A conservative method of lines for advection-reaction-diffusion equations. International Journal of Numerical Methods for Heat and Fluid Flow, 2020, 30, 4735-4763.	2.8	1
5	Shock waves of viscoelastic Burgers equations. International Journal of Engineering Science, 2020, 149, 103226.	5.0	3
6	Kink solutions of the generalized, super-diffusive Burgers equation with memory. Communications in Nonlinear Science and Numerical Simulation, 2019, 76, 25-44.	3.3	4
7	A conservative, piecewise-analytical, transversal method of lines for reaction-diffusion equations. International Journal of Numerical Methods for Heat and Fluid Flow, 2019, 29, 4093-4129.	2.8	1
8	Numerical solution of the generalized, dissipative KdV-Rosenau equation with a compact method. Communications in Nonlinear Science and Numerical Simulation, 2018, 60, 165-183.	3.3	15
9	Analytical and numerical solutions to some one-dimensional relativistic heat equations. Applied Mathematical Modelling, 2017, 46, 181-202.	4.2	1
10	Time-linearized, compact methods for the inviscid GRLW equation subject to initial Gaussian conditions. Applied Mathematical Modelling, 2017, 48, 353-383.	4.2	6
11	A conservative, spatially continuous method of lines for one-dimensional reaction-diffusion equations. International Journal of Numerical Methods for Heat and Fluid Flow, 2017, 27, 2650-2678.	2.8	3
12	Solitary Wave Formation from a Generalized Rosenau Equation. Mathematical Problems in Engineering, 2016, 2016, 1-17.	1.1	5
13	On the accuracy of some explicit and implicit methods for the inviscid GRLW equation subject to initial Gaussian conditions. International Journal of Numerical Methods for Heat and Fluid Flow, 2016, 26, 698-721.	2.8	4
14	On Viscous Generalized Chapyglin Gases in Non-flat Universes. International Journal of Theoretical Physics, 2016, 55, 41-54.	1.2	1
15	FRW Viscous Cosmological Models of Generalized Chapyglin Gases. International Journal of Theoretical Physics, 2015, 54, 3293-3303.	1.2	1
16	Solitary waves generated by bell-shaped initial conditions in the inviscid and viscous GRLW equations. Applied Mathematical Modelling, 2015, 39, 6645-6668.	4.2	8
17	Heat Transfer Processes in Film Casting of Compressible Polymers. , 2014, , .		1
18	Relaxation Phenomena in Reaction-Diffusion Processes. , 2014, , .		0

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19	Effects of convection on a modified GRLW equation. Applied Mathematics and Computation, 2012, 219, 4118-4132.	2.2	14
20	Numerical analysis of the effect of small geometrical imperfections on photonic crystal wires. Applied Mathematics and Computation, 2012, 218, 5989-5993.	2.2	1
21	A simplified two-dimensional model of the melt spinning of semi-crystalline hollow compound fibers. International Journal of Thermal Sciences, 2012, 58, 102-112.	4.9	5
22	REACTION-DIFFUSION PHENOMENA WITH RELAXATION. , 2012, , .		0
23	SHELL FORMATION IN DRY SPINNING. , 2012, , .		0
24	Melt spinning of semi-crystalline compound fibers. Polymer, 2011, 52, 5573-5586.	3.8	14
25	On two classes of autonomous third-order nonlinear ordinary differential equations. Applied Mathematics and Computation, 2011, 218, 2011-2024.	2.2	0
26	A Volterra integral formulation for determining the periodic solutions of some autonomous, nonlinear, third-order ordinary differential equations. Applied Mathematics and Computation, 2010, 216, 2635-2644.	2.2	7
27	Analytical and approximate solutions to autonomous, nonlinear, third-order ordinary differential equations. Nonlinear Analysis: Real World Applications, 2010, 11, 1613-1626.	1.7	20
28	Approximate methods based on order reduction for the periodic solutions of nonlinear third-order ordinary differential equations. Applied Mathematics and Computation, 2010, 215, 4304-4319.	2.2	20
29	Piecewise-adaptive decomposition methods. Chaos, Solitons and Fractals, 2009, 40, 1623-1636.	5.1	25
30	An artificial parameter Linstedt Poincaré method for oscillators with smooth odd nonlinearities. Chaos, Solitons and Fractals, 2009, 41, 380-393.	5.1	17
31	Generalized decomposition methods for nonlinear oscillators. Chaos, Solitons and Fractals, 2009, 41, 1078-1084.	5.1	2
32	Generalized decomposition methods for singular oscillators. Chaos, Solitons and Fractals, 2009, 42, 1149-1155.	5.1	7
33	Iterative and non-iterative methods for non-linear Volterra integro-differential equations. Applied Mathematics and Computation, 2009, 214, 287-296.	2.2	10
34	Picard's iterative method for nonlinear advection-reaction-diffusion equations. Applied Mathematics and Computation, 2009, 215, 1526-1536.	2.2	18
35	An artificial parameter Linstedt Poincaré method for the periodic solutions of nonlinear oscillators in which the restoring force is inversely proportional to the dependent variable. Journal of Sound and Vibration, 2008, 318, 1281-1290.	3.9	9
36	Linearized Galerkin and artificial parameter techniques for the determination of periodic solutions of nonlinear oscillators. Applied Mathematics and Computation, 2008, 196, 483-493.	2.2	11

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37	Piecewise homotopy methods for nonlinear ordinary differential equations. Applied Mathematics and Computation, 2008, 198, 92-116.	2.2	20
38	On the variational iteration method and other iterative techniques for nonlinear differential equations. Applied Mathematics and Computation, 2008, 199, 39-69.	2.2	92
39	Limit cycles of non-smooth oscillators. Applied Mathematics and Computation, 2008, 199, 738-747.	2.2	5
40	On the Picardâ€“Lindelof method for nonlinear second-order differential equations. Applied Mathematics and Computation, 2008, 203, 238-242.	2.2	14
41	A non-iterative derivative-free method for nonlinear ordinary differential equations. Applied Mathematics and Computation, 2008, 203, 672-678.	2.2	4
42	On a model of three-dimensional bursting and its parallel implementation. Computer Physics Communications, 2008, 178, 471-485.	7.5	2
43	Series approach to the Laneâ€“Emden equation and comparison with the homotopy perturbation method. Chaos, Solitons and Fractals, 2008, 38, 400-408.	5.1	113
44	Pattern deformation and annihilation in two-dimensional excitable media in oscillatory domains. Chaos, Solitons and Fractals, 2008, 35, 668-679.	5.1	0
45	Piecewise-linearized methods for single degree-of-freedom problems. Communications in Nonlinear Science and Numerical Simulation, 2007, 12, 1005-1022.	3.3	3
46	Solitary wave interactions of the GRLW equation. Chaos, Solitons and Fractals, 2007, 33, 479-491.	5.1	31
47	Solitary waves of the EW and RLW equations. Chaos, Solitons and Fractals, 2007, 34, 1498-1518.	5.1	18
48	A finite volume method for one-dimensional reactionâ€“diffusion problems. Applied Mathematics and Computation, 2007, 188, 739-748.	2.2	15
49	Piecewise-quasilinearization techniques for singularly perturbed Volterra integro-differential equations. Applied Mathematics and Computation, 2007, 188, 1221-1233.	2.2	8
50	Asymptotic analysis of channel flows with slip lengths that depend on the pressure. Applied Mathematics and Computation, 2007, 188, 1310-1318.	2.2	6
51	Propagation and interaction of moving fronts in polymer crystallization. Applied Mathematics and Computation, 2007, 189, 780-795.	2.2	5
52	Numerical methods for nonlinear second-order hyperbolic partial differential equations. I. Time-linearized finite difference methods for 1-D problems. Applied Mathematics and Computation, 2007, 190, 722-756.	2.2	7
53	Numerical methods for nonlinear second-order hyperbolic partial differential equations. II â€“ Rotheâ€™s techniques for 1-D problems. Applied Mathematics and Computation, 2007, 190, 804-832.	2.2	5
54	On Linstedtâ€“PoincarÃ© techniques for the quintic Duffing equation. Applied Mathematics and Computation, 2007, 193, 303-310.	2.2	39

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55	Thermal analysis of bicomponent fibres. <i>Applied Thermal Engineering</i> , 2007, 27, 586-598.	6.0	3
56	Piecewise-linearized methods for oscillators with fractional-power nonlinearities. <i>Journal of Sound and Vibration</i> , 2007, 300, 502-521.	3.9	24
57	An artificial parameter-decomposition method for nonlinear oscillators: Applications to oscillators with odd nonlinearities. <i>Journal of Sound and Vibration</i> , 2007, 307, 312-329.	3.9	23
58	Three-dimensional Bursting and Parallel Computing. <i>International Journal for Multiscale Computational Engineering</i> , 2007, 5, 39-46.	1.2	0
59	Iterative and non-iterative, full and approximate factorization methods for multidimensional reaction-diffusion equations. <i>Applied Mathematics and Computation</i> , 2006, 174, 1586-1608.	2.2	5
60	Linearly-implicit, approximate factorization, exponential methods for multi-dimensional reaction-diffusion equations. <i>Applied Mathematics and Computation</i> , 2006, 174, 1609-1633.	2.2	10
61	Explicit finite difference methods for the EW and RLW equations. <i>Applied Mathematics and Computation</i> , 2006, 179, 622-638.	2.2	30
62	Piecewise-linearized methods for initial-value problems with oscillating solutions. <i>Applied Mathematics and Computation</i> , 2006, 181, 123-146.	2.2	7
63	Damping characteristics of finite difference methods for one-dimensional reaction-diffusion equations. <i>Applied Mathematics and Computation</i> , 2006, 182, 607-609.	2.2	1
64	Exponential methods for singularly perturbed ordinary differential-difference equations. <i>Applied Mathematics and Computation</i> , 2006, 182, 1528-1541.	2.2	20
65	Determination of periodic orbits of nonlinear oscillators by means of piecewise-linearization methods. <i>Chaos, Solitons and Fractals</i> , 2006, 28, 1306-1313.	5.1	8
66	Piecewise-linearized methods for oscillators with limit cycles. <i>Chaos, Solitons and Fractals</i> , 2006, 27, 1229-1238.	5.1	17
67	Chapter 7 Global volcanic simulation: Physical modeling, numerics, and computer implementation. <i>Developments in Volcanology</i> , 2006, 8, 311-372.	0.5	2
68	Parallel Simulation of Three-Dimensional Bursting with MPI and OpenMP. <i>Lecture Notes in Computer Science</i> , 2006, , 106-113.	1.3	0
69	Adaptive domain-decomposition methods for two-dimensional, time-dependent reaction-diffusion equations in nongraded meshes. <i>Progress in Computational Fluid Dynamics</i> , 2005, 5, 482.	0.2	0
70	A piecewise-analytical method for singularly perturbed parabolic problems. <i>Applied Mathematics and Computation</i> , 2005, 161, 501-512.	2.2	15
71	An exponentially-fitted method for singularly perturbed, one-dimensional, parabolic problems. <i>Applied Mathematics and Computation</i> , 2005, 161, 513-523.	2.2	16
72	Linearization techniques for singular initial-value problems of ordinary differential equations. <i>Applied Mathematics and Computation</i> , 2005, 161, 525-542.	2.2	63

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73	An exponentially-fitted method for singularly-perturbed ordinary differential equations with turning points and parabolic problems. <i>Applied Mathematics and Computation</i> , 2005, 165, 549-564.	2.2	9
74	Linearization techniques for singularly-perturbed initial-value problems of ordinary differential equations. <i>Applied Mathematics and Computation</i> , 2005, 163, 1143-1163.	2.2	9
75	A smooth locally-analytical technique for singularly perturbed two-point boundary-value problems. <i>Applied Mathematics and Computation</i> , 2005, 163, 1123-1142.	2.2	11
76	Exponentially-fitted methods on layer-adapted meshes. <i>Applied Mathematics and Computation</i> , 2005, 167, 1311-1330.	2.2	6
77	Equivalence of CO and C1 methods for ODEs. <i>Applied Mathematics and Computation</i> , 2005, 167, 1331-1338.	2.2	4
78	Exponential methods for one-dimensional reaction-diffusion equations. <i>Applied Mathematics and Computation</i> , 2005, 170, 380-398.	2.2	14
79	Numerical study of the thermal degradation of isotropic and anisotropic polymeric materials. <i>International Journal of Thermal Sciences</i> , 2005, 44, 735-755.	4.9	3
80	On the numerical treatment of an ordinary differential equation arising in one-dimensional non-Fickian diffusion problems. <i>Computer Physics Communications</i> , 2005, 170, 231-238.	7.5	8
81	Convection and radiation effects in hollow, compound optical fibers. <i>International Journal of Thermal Sciences</i> , 2005, 44, 832-850.	4.9	4
82	Modelling of liquid crystalline compound fibres. <i>Polymer</i> , 2005, 46, 12612-12625.	3.8	7
83	Exponential numerical methods for one-dimensional one-phase Stefan problems. <i>Archive of Applied Mechanics</i> , 2005, 74, 664-678.	2.2	6
84	Robustness of spiral waves in two-dimensional reactive-diffusive media. <i>Applied Mathematics and Computation</i> , 2004, 148, 681-695.	2.2	1
85	Spiral wave break-up and planar front formation in two-dimensional reactive-diffusive media with straining. <i>Applied Mathematics and Computation</i> , 2004, 154, 697-711.	2.2	5
86	Non-standard, explicit integration algorithms based on linearization for nonlinear dynamic response analysis. <i>Applied Mathematics and Computation</i> , 2004, 159, 695-715.	2.2	5
87	Piecewise quasilinearization techniques for singular boundary-value problems. <i>Computer Physics Communications</i> , 2004, 158, 12-25.	7.5	29
88	Linearization methods in classical and quantum mechanics. <i>Computer Physics Communications</i> , 2003, 153, 199-208.	7.5	72
89	Spatio-temporal patterns in two-dimensional excitable media subject to Robin boundary conditions. <i>Applied Mathematics and Computation</i> , 2003, 146, 55-72.	2.2	3
90	Parallel scheduling of the PCG method for banded matrices arising from FDM/FEM. <i>Journal of Parallel and Distributed Computing</i> , 2003, 63, 1243-1256.	4.1	15

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91	Spiral waves in three-dimensional excitable media with light-sensitive reaction. <i>Chaos, Solitons and Fractals</i> , 2003, 18, 365-373.	5.1	5
92	Complex patterns in three-dimensional excitable media with advection. <i>Chaos, Solitons and Fractals</i> , 2003, 18, 375-384.	5.1	1
93	Oscillatory dynamics of inviscid planar liquid sheets. <i>Applied Mathematics and Computation</i> , 2003, 143, 109-144.	2.2	12
94	Complex dynamics of planar liquid sheets induced by heat and mass transfer. <i>Applied Mathematics and Computation</i> , 2003, 145, 151-177.	2.2	0
95	Reactive-diffusive phenomena in two-dimensional, anisotropic media. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2003, 13, 997-1030.	2.8	2
96	Wave propagation and suppression in excitable media with holes and external forcing. <i>Chaos, Solitons and Fractals</i> , 2002, 13, 1243-1251.	5.1	5
97	Dynamics of spiral waves in excitable media with local time-periodic modulation. <i>Chaos, Solitons and Fractals</i> , 2002, 13, 1383-1392.	5.1	15
98	Compound liquid jets at low Reynolds numbers. <i>Polymer</i> , 2002, 43, 2889-2896.	3.8	8
99	S-stability of piecewise-linearized and linearized \hat{I}_1 -methods. <i>Applied Mathematics and Computation</i> , 2002, 132, 617-631.	2.2	0
100	Linearly implicit methods for the nonlinear Schrödinger equation in nonhomogeneous media. <i>Applied Mathematics and Computation</i> , 2002, 133, 1-28.	2.2	16
101	Pattern formation in two-dimensional reactive-diffusive media with straining. <i>Chemical Physics Letters</i> , 2002, 365, 260-266.	2.6	7
102	Spatio-temporal patterns in excitable media with non-solenoidal flow straining. <i>Mathematics and Computers in Simulation</i> , 2001, 55, 607-619.	4.4	7
103	Interaction of spatial solitons with a localized spatially-modulated medium. <i>Mathematics and Computers in Simulation</i> , 2001, 56, 571-583.	4.4	0
104	Periodically forced Hopf bifurcation in annular liquid jets with mass transfer. <i>Applied Mathematics and Computation</i> , 2001, 123, 301-342.	2.2	1
105	Domain decomposition techniques for reaction-diffusion equations in two-dimensional regions with re-entrant corners. <i>Applied Mathematics and Computation</i> , 2001, 118, 189-221.	2.2	10
106	Propagation of spiral waves in anisotropic media: from waves to stripes. <i>Chaos, Solitons and Fractals</i> , 2001, 12, 1057-1064.	5.1	11
107	Convection-induced anisotropy in excitable media subject to solenoidal advective flow fields. <i>Chaos, Solitons and Fractals</i> , 2001, 12, 1897-1908.	5.1	15
108	Tile patterns in excitable media subject to non-solenoidal flow fields. <i>Chaos, Solitons and Fractals</i> , 2001, 12, 2267-2281.	5.1	12

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109	Drawing of annular liquid jets at low Reynolds numbers. Computational and Theoretical Polymer Science, 2001, 11, 429-443.	1.1	9
110	Nonlinear dynamics of hollow, compound jets at low Reynolds numbers. International Journal of Engineering Science, 2001, 39, 1289-1314.	5.0	4
111	Singularities and stability of inviscid, planar liquid membranes. International Journal of Engineering Science, 2001, 39, 1935-1948.	5.0	3
112	The sine-Gordon equation in the finite line. Applied Mathematics and Computation, 2001, 124, 45-93.	2.2	19
113	Stability and nonlinear dynamics of planar film casting processes. International Journal of Engineering Science, 2001, 39, 1949-1961.	5.0	4
114	Asymptotic Analysis and Stability of Inviscid Liquid Sheets. Journal of Mathematical Analysis and Applications, 2000, 250, 512-532.	1.0	7
115	Heat and mass transfer in annular liquid jets: III. Combustion within the volume enclosed by the jet. Applied Mathematics and Computation, 2000, 110, 185-204.	2.2	1
116	Heat and mass transfer in annular liquid jets: I. Formulation. Applied Mathematics and Computation, 2000, 110, 133-164.	2.2	4
117	Heat and mass transfer in annular liquid jets: II. g-jitter. Applied Mathematics and Computation, 2000, 110, 165-183.	2.2	3
118	Asymptotic analysis of compound liquid jets at low Reynolds numbers. Applied Mathematics and Computation, 1999, 100, 223-240.	2.2	16
119	Linearized factorization techniques for multidimensional reaction-diffusion equations. Applied Mathematics and Computation, 1999, 100, 201-222.	2.2	14
120	On the method of modified equations. IV. Numerical techniques based on the modified equation for the Euler forward difference method. Applied Mathematics and Computation, 1999, 103, 213-240.	2.2	4
121	On the method of modified equations. III. Numerical techniques based on the second equivalent equation for the Euler forward difference method. Applied Mathematics and Computation, 1999, 103, 179-212.	2.2	6
122	On the method of modified equations. II: Numerical techniques based on the equivalent equation for the Euler forward difference method. Applied Mathematics and Computation, 1999, 103, 141-177.	2.2	7
123	On the method of modified equations. I: Asymptotic analysis of the Euler forward difference method. Applied Mathematics and Computation, 1999, 103, 111-139.	2.2	26
124	On diffusive methods and exponentially fitted techniques. Applied Mathematics and Computation, 1999, 103, 69-96.	2.2	23
125	On the method of modified equations. VI: Asymptotic analysis of and asymptotic successive-corrections techniques for two-point, boundary-value problems in ODE's. Applied Mathematics and Computation, 1999, 105, 137-171.	2.2	1
126	On the method of modified equations. V: Asymptotic analysis of and direct-correction and asymptotic successive-correction techniques for the implicit midpoint method. Applied Mathematics and Computation, 1999, 103, 241-285.	2.2	4

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127	Linearized methods for ordinary differential equations. Applied Mathematics and Computation, 1999, 104, 109-129.	2.2	20
128	Two-dimensional simulations of magma ascent in volcanic conduits. International Journal for Numerical Methods in Fluids, 1999, 29, 765-789.	1.6	11
129	Upstream boundary conditions for flows in porous channels. Applied Mathematics and Computation, 1998, 93, 149-154.	2.2	2
130	Intermediate boundary conditions in operator-splitting techniques and linearization methods. Applied Mathematics and Computation, 1998, 94, 113-136.	2.2	3
131	A piecewise time-linearized method for the logistic differential equation. Applied Mathematics and Computation, 1998, 93, 139-148.	2.2	10
132	Implicit, compact, linearized \hat{I}_t -methods with factorization for multidimensional reaction-diffusion equations. Applied Mathematics and Computation, 1998, 94, 17-43.	2.2	21
133	Maps of implicit, linearized \hat{I}_t -methods for the logistic differential equation. Applied Mathematics and Computation, 1998, 94, 1-15.	2.2	5
134	Annular liquid jets and other axisymmetric free-surface flows at high Reynolds numbers. Applied Mathematical Modelling, 1998, 22, 423-452.	4.2	6
135	Leading-order equivalence of two formulations for long, annular liquid membranes. Applied Mathematical Modelling, 1998, 22, 453-457.	4.2	2
136	Asymptotic and numerical analysis of vertical, planar liquid sheets subject to Londonâ€van der Waals forces. International Journal of Numerical Methods for Heat and Fluid Flow, 1997, 7, 42-62.	2.8	0
137	Piecewise-linearized methods for initial-value problems. Applied Mathematics and Computation, 1997, 82, 273-302.	2.2	26
138	Nonstandard finite difference equations for ODEs and 1-D PDEs based on piecewise linearization. Applied Mathematics and Computation, 1997, 86, 11-36.	2.2	13
139	Linearization methods for reaction-diffusion equations: 1-D problems. Applied Mathematics and Computation, 1997, 88, 199-224.	2.2	17
140	Analysis of Annular Liquid Membranes and Their Singularities. Meccanica, 1997, 32, 279-293.	2.0	8
141	Short Note: A nonstandard finite difference method for the one-dimensional advection equation in cylindrical-polar coordinates. Applied Mathematical Modelling, 1997, 21, 337-338.	4.2	2
142	Mass transfer in annular liquid jets in the presence of liquid flow rate fluctuations. Applied Mathematical Modelling, 1997, 21, 363-369.	4.2	2
143	Lumped models of gas bubbles in thermal gradients. Applied Mathematical Modelling, 1997, 21, 371-386.	4.2	25
144	Linearization methods for reaction-diffusion equations: Multidimensional problems. Applied Mathematics and Computation, 1997, 88, 225-254.	2.2	35

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145	EXACT-FACTORIZATION, COMPACT METHODS FOR MULTIDIMENSIONAL HEAT TRANSFER: APPLICATION TO COMBUSTION. , 1997, , .		0
146	AN ADAPTIVE METHOD FOR HEAT TRANSFER IN ANNULAR LIQUID JETS. , 1997, , .		0
147	Câ€”jitter effects on mass transfer in annular liquid jets. International Journal of Numerical Methods for Heat and Fluid Flow, 1996, 6, 17-28.	2.8	4
148	Inviscid, slender, annular liquid jets. Chemical Engineering Science, 1996, 51, 981-994.	3.8	7
149	Irrotational, Annular Liquid Jets. Journal of Mathematical Analysis and Applications, 1996, 202, 538-554.	1.0	2
150	Linearized $\hat{\Gamma}$ -methods I. Ordinary differential equations. Computer Methods in Applied Mechanics and Engineering, 1996, 129, 255-269.	6.6	13
151	Upward and downward annular liquid jets: Conservation properties, singularities, and numerical errors. Applied Mathematical Modelling, 1996, 20, 440-458.	4.2	5
152	One-dimensional models of steady, inviscid, annular liquid jets. Applied Mathematical Modelling, 1996, 20, 593-607.	4.2	8
153	Linearized $\hat{\Gamma}$ -methods part II: Reaction-diffusion equations. Computer Methods in Applied Mechanics and Engineering, 1996, 137, 357-378.	6.6	12
154	One-dimensional, time-dependent, homogeneous, two-phase flow in volcanic conduits. International Journal for Numerical Methods in Fluids, 1995, 21, 253-278.	1.6	24
155	On the growth of underpressurized annular liquid jets. Applied Mathematical Modelling, 1995, 19, 13-25.	4.2	5
156	THE EFFECTS OF THE SOLUBILITY LAW ON MASS TRANSFER IN ANNULAR LIQUID JETS. Chemical Engineering Communications, 1995, 139, 137-157.	2.6	5
157	The effects of fluctuating body forces on annular liquid jets. Archive of Applied Mechanics, 1995, 65, 548-563.	2.2	6
158	Isothermal mass transfer in annular liquid jets with Sievert's solubility law. Archive of Applied Mechanics, 1995, 65, 260-269.	2.2	0
159	A quantum mechanics analogy for the nonlinear SchrÃ¶dinger equation in the finite line. Computers and Mathematics With Applications, 1994, 28, 3-17.	2.7	2
160	The nonlinear SchrÃ¶dinger equation in the finite line. Mathematical and Computer Modelling, 1994, 20, 31-59.	2.0	10
161	Hopf bifurcation in mass transfer with Sievert's solubility law. Mathematical and Computer Modelling, 1994, 20, 61-72.	2.0	2
162	Application of the two-dimensional Fourier transform to nonlinear wave propagation phenomena. IEEE Transactions on Microwave Theory and Techniques, 1994, 42, 1079-1085.	4.6	5

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163	Adaptive methods of lines for one-dimensional reaction-diffusion equations. International Journal for Numerical Methods in Fluids, 1993, 16, 697-723.	1.6	10
164	Domain-adaptive finite difference methods for collapsing annular liquid jets. Computational Mechanics, 1993, 11, 28-64.	4.0	19
165	MASS ABSORPTION BY ANNULAR LIQUID JETS: III. NUMERICAL STUDIES OF JET COLLAPSE. International Journal of Numerical Methods for Heat and Fluid Flow, 1992, 2, 21-36.	2.8	6
166	Annular Liquid Jets: Formulation and Steady State Analysis. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 1992, 72, 565-589.	1.6	37
167	Oscillating annular liquid membranes. Archive of Applied Mechanics, 1992, 62, 43-52.	2.2	3
168	Adaptive block-implicit methods for annular liquid jets. Applied Mathematical Modelling, 1992, 16, 464-475.	4.2	0
169	Adaptive and nonadaptive Hermitian operator methods for combustion phenomena. Computer Methods in Applied Mechanics and Engineering, 1991, 90, 609-630.	6.6	1
170	Dynamic response of liquid curtains to time-dependent pressure fluctuations. Applied Mathematical Modelling, 1991, 15, 126-135.	4.2	7
171	Dynamics of liquid membranes. I: Non-adaptive finite difference methods. International Journal for Numerical Methods in Fluids, 1991, 12, 859-879.	1.6	4
172	Dynamics of liquid membranes. II: Adaptive finite difference methods. International Journal for Numerical Methods in Fluids, 1991, 12, 881-894.	1.6	2
173	Response of annular liquid jets to mass loading. Computational Mechanics, 1991, 9, 1-16.	4.0	3
174	Finite element methods for one-dimensional combustion problems. International Journal for Numerical Methods in Fluids, 1990, 11, 893-906.	1.6	4
175	Finite difference and finite element methods for mhd channel flows. International Journal for Numerical Methods in Fluids, 1990, 11, 907-934.	1.6	35
176	Liquid curtainsâ€™II. Gas absorption. Chemical Engineering Science, 1990, 45, 1595-1604.	3.8	18
177	Annular liquid jets in zero gravity. Applied Mathematical Modelling, 1990, 14, 630-640.	4.2	6
178	Analytical, asymptotic and numerical studies of liquid curtains and comparisons with experimental data. Applied Mathematical Modelling, 1990, 14, 170-183.	4.2	15
179	An analysis of laminar boundary layers on liquid curtains. Zeitschrift Fur Angewandte Mathematik Und Physik, 1989, 40, 721-739.	1.4	11
180	Liquid curtainsâ€™I. Fluid mechanics. Chemical Engineering Science, 1988, 43, 3171-3184.	3.8	43

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181	Multicomponent Gas Bubbles. II. Bubble Dynamics. Journal of Non-Equilibrium Thermodynamics, 1988, 13, .	4.2	0
182	Fuel-Air Mixing and Combustion in a Two-Dimensional Wankel Engine. , 1987, , .		12
183	Numerical Simulation of the Flow Field and Fuel Sprays in an IC Engine. , 1987, , .		4
184	Modified equation techniques for reactive-diffusive systems. Part 1: explicit, implicit and quasilinear methods. Computer Methods in Applied Mechanics and Engineering, 1987, 64, 195-219.	6.6	5
185	Hermitian operator methods for reaction-diffusion equations. Numerical Methods for Partial Differential Equations, 1987, 3, 241-287.	3.6	12
186	Numerical solution of reaction-diffusion equations by compact operators and modified equation methods. International Journal for Numerical Methods in Fluids, 1987, 7, 337-351.	1.6	6
187	Modified equation techniques for reaction-diffusive systems. part 2: time-linearization and operator-splitting methods. Computer Methods in Applied Mechanics and Engineering, 1987, 64, 221-236.	6.6	7
188	Bending and torsional resonances in structures subject to ground motion. Applied Mathematical Modelling, 1987, 11, 195-210.	4.2	1
189	Numerical solution of reactive-diffusive systems. International Journal of Computer Mathematics, 1986, 18, 289-309.	1.8	13
190	A heuristic control strategy for non-linear reaction-diffusion equations. International Journal of Control, 1986, 43, 473-483.	1.9	1
191	Stability analysis of a closed thermosyphon model. Applied Mathematical Modelling, 1986, 10, 61-67.	4.2	2
192	Comparisons between thermodynamic and one-dimensional combustion models of spark-ignition engines. Applied Mathematical Modelling, 1986, 10, 409-422.	4.2	7
193	Behavior of Multicomponent Gas Bubbles in Glass Melts. Journal of the American Ceramic Society, 1986, 69, 149-154.	3.8	21
194	GROWTH OF MULTICOMPONENT GAS BUBBLES. Chemical Engineering Communications, 1986, 40, 321-334.	2.6	8
195	On the accuracy of block implicit and operator-splitting algorithms in confined flame propagation problems. International Journal of Computer Mathematics, 1986, 20, 299-324.	1.8	7
196	Incompressible swirling flows. Engineering Computations, 1986, 3, 53-63.	1.4	3
197	Torsional oscillations in structures subject to ground motion. Applied Mathematical Modelling, 1985, 9, 99-105.	4.2	3
198	Mathematical modelling of spark-ignition engines. Applied Mathematical Modelling, 1985, 9, 40-52.	4.2	6

#	ARTICLE	IF	CITATIONS
199	On the calculation of heat, mass and momentum transport in coaxial jets and mixing layers. International Communications in Heat and Mass Transfer, 1985, 12, 323-336.	5.6	4
200	Development and application of an adaptive finite element method to reaction-diffusion equations. International Journal for Numerical Methods in Fluids, 1985, 5, 13-23.	1.6	10
201	A Numerical Study of a Swirl Stabilized Combustor. Journal of Non-Equilibrium Thermodynamics, 1985, 10, .	4.2	11
202	Probability Density Function Calculations in Turbulent Chemically Reacting Round Jets, Mixing Layers and One-Dimensional Reactors. Journal of Non-Equilibrium Thermodynamics, 1985, 10, .	4.2	23
203	Swirling flow in a research combustor. AIAA Journal, 1985, 23, 241-248.	2.6	42
204	Numerical solution of reactive-diffusive systems. International Journal of Computer Mathematics, 1985, 18, 141-161.	1.8	8
205	Numerical solution of reactive-diffusive systems. International Journal of Computer Mathematics, 1985, 18, 43-65.	1.8	12
206	Formation and Destruction of Vortices in a Motored Four-Stroke Piston-Cylinder Configuration. AIAA Journal, 1984, 22, 948-949.	2.6	0
207	Turbulent nonreacting swirling flows. AIAA Journal, 1984, 22, 846-848.	2.6	21
208	Torsional oscillations in symmetrical structures. Applied Mathematical Modelling, 1984, 8, 433-441.	4.2	3
209	On some accurate finite-difference methods for laminar flame calculations. International Journal for Numerical Methods in Fluids, 1984, 4, 915-930.	1.6	13
210	On the calculation of heat and momentum transport in a round jet. International Communications in Heat and Mass Transfer, 1984, 11, 173-182.	5.6	12
211	Numerical solution of non-premixed reactive flows in a swirl combustor model. Engineering Computations, 1984, 1, 173-182.	1.4	8
212	A review of some numerical methods for reaction-diffusion equations. Mathematics and Computers in Simulation, 1983, 25, 538-548.	4.4	10
213	Numerical studies of laminar flame propagation in spherical bombs. AIAA Journal, 1983, 21, 415-422.	2.6	10
214	Application of the finite-element method to one-dimensional flame propagation problems. AIAA Journal, 1983, 21, 262-269.	2.6	9
215	Study of turbulence in a motored four-stroke internal combustion engine. AIAA Journal, 1981, 19, 595-600.	2.6	11
216	Turbulent flow field in homogeneous-charge, spark-ignition engines. Proceedings of the Combustion Institute, 1981, 18, 1825-1835.	0.3	10

#	ARTICLE	IF	CITATIONS
217	The calculation of the pressure in unsteady flows using a control-volume approach. Journal of Computational Physics, 1981, 41, 211-216.	3.8	4
218	Axisymmetric Flow Model with and without Swirl in a Piston-Cylinder Arrangement with Idealized Valve Operation. , 1980, , .		11
219	Axisymmetric Flow Model in a Piston-Cylinder Arrangement with Detailed Analysis of the Valve Region. , 1980, , .		17
220	Numerical Prediction of Axisymmetric Laminar and Turbulent Flows in Motored, Reciprocating Internal Combustion Engines. , 1979, , .		18
221	Modelling of a Gasoline-Injected Two-Stroke Cycle Engine. , 0, , .		3
222	Analysis of the formation and interaction of solitons in nonlinear transmission lines by means of a harmonic balance technique. , 0, , .		2