

Renato Machado Cotta

List of Publications by Year in descending order

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284
papers

4,244
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docs citations

295
times ranked

1313
citing authors

#	ARTICLE	IF	CITATIONS
1	HYBRID NUMERICAL/ANALYTICAL APPROACH TO NONLINEAR DIFFUSION PROBLEMS. Numerical Heat Transfer, Part B: Fundamentals, 1990, 17, 217-226.	0.6	102
2	Benchmark results in computational heat and fluid flow: The integral transform method. International Journal of Heat and Mass Transfer, 1994, 37, 381-393.	2.5	94
3	Laminar forced convection inside ducts with periodic variation of inlet temperature. International Journal of Heat and Mass Transfer, 1986, 29, 1495-1501.	2.5	80
4	Thermal Measurements and Inverse Techniques. , 0, , .		69
5	Near-source atmospheric pollutant dispersion using the new GILTT method. Atmospheric Environment, 2005, 39, 6289-6294.	1.9	63
6	Integral transform solutions of transient natural convection in enclosures with variable fluid properties. International Journal of Heat and Mass Transfer, 2000, 43, 3977-3990.	2.5	62
7	An inverse problem of parameter estimation for heat and mass transfer in capillary porous media. International Journal of Heat and Mass Transfer, 2003, 46, 1587-1598.	2.5	60
8	Eigenfunction expansions for transient diffusion in heterogeneous media. International Journal of Heat and Mass Transfer, 2009, 52, 5029-5039.	2.5	59
9	The PN method for radiative transfer problems with reflective boundary conditions. Journal of Quantitative Spectroscopy and Radiative Transfer, 1983, 30, 547-553.	1.1	58
10	Integral transform solution for the lid-driven cavity flow problem in streamfunction-only formulation. International Journal for Numerical Methods in Fluids, 1992, 15, 399-409.	0.9	54
11	Thermally developing laminar flow inside rectangular ducts. International Journal of Heat and Mass Transfer, 1990, 33, 341-347.	2.5	53
12	Linear stability of natural convection in superposed fluid and porous layers: Influence of the interfacial modelling. International Journal of Heat and Mass Transfer, 2007, 50, 1356-1367.	2.5	53
13	Transient conjugated forced convection in ducts with periodically varying inlet temperature. International Journal of Heat and Mass Transfer, 1987, 30, 2073-2082.	2.5	52
14	Improved One-Dimensional Fin Solutions. Heat Transfer Engineering, 1990, 11, 49-59.	1.2	52
15	Theoretical analysis of conjugated heat transfer with a single domain formulation and integral transforms. International Communications in Heat and Mass Transfer, 2012, 39, 355-362.	2.9	47
16	Laminar forced convection of power-law non-Newtonian fluids inside ducts. Heat and Mass Transfer, 1986, 20, 211-218.	0.2	46
17	Benchmark integral transform results for flow over a backward-facing step. Computers and Fluids, 1996, 25, 527-540.	1.3	46
18	The UNIT algorithm for solving one-dimensional convection-diffusion problems via integral transforms. International Communications in Heat and Mass Transfer, 2011, 38, 565-571.	2.9	46

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19	Fluid flow and conjugated heat transfer in arbitrarily shaped channels via single domain formulation and integral transforms. <i>International Journal of Heat and Mass Transfer</i> , 2015, 82, 479-489.	2.5	45
20	Transient conjugated heat transfer in microchannels: Integral transforms with single domain formulation. <i>International Journal of Thermal Sciences</i> , 2015, 88, 248-257.	2.6	43
21	Integral transform solutions of diffusion problems with nonlinear equation coefficients. <i>International Communications in Heat and Mass Transfer</i> , 1990, 17, 851-864.	2.9	41
22	Improved lumped parameter formulation for simplified LWR thermohydraulic analysis. <i>Annals of Nuclear Energy</i> , 2001, 28, 1019-1031.	0.9	41
23	Convective heat transfer enhancement in low Reynolds number flows with wavy walls. <i>International Journal of Heat and Mass Transfer</i> , 2010, 53, 2022-2034.	2.5	41
24	Mass transport enhancement in redox flow batteries with corrugated fluidic networks. <i>Journal of Power Sources</i> , 2017, 359, 322-331.	4.0	40
25	HYBRID ANALYSIS OF TRANSIENT NON-LINEAR CONVECTION-DIFFUSION PROBLEMS. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 1992, 2, 55-62.	1.6	39
26	Simulation of laminar flow inside ducts of irregular geometry using integral transforms. <i>Computational Mechanics</i> , 2000, 25, 413-420.	2.2	39
27	Improved lumped analysis of transient heat conduction in a nuclear fuel rod. <i>International Communications in Heat and Mass Transfer</i> , 2000, 27, 357-366.	2.9	38
28	Stability analysis of natural convection in porous cavities through integral transforms. <i>International Journal of Heat and Mass Transfer</i> , 2002, 45, 1185-1195.	2.5	38
29	Estimation of dimensionless parameters of Luikov's system for heat and mass transfer in capillary porous media. <i>International Journal of Thermal Sciences</i> , 2002, 41, 217-227.	2.6	38
30	Unified Integral Transforms Algorithm for Solving Multidimensional Nonlinear Convection-Diffusion Problems. <i>Numerical Heat Transfer; Part A: Applications</i> , 2013, 63, 840-866.	1.2	38
31	Analytical solutions to two-dimensional diffusion type problems in irregular geometries. <i>Journal of the Franklin Institute</i> , 1989, 326, 421-434.	1.9	36
32	INTEGRAL TRANSFORM ANALYSIS OF MULTIDIMENSIONAL EIGENVALUE PROBLEMS WITHIN IRREGULAR DOMAINS. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2000, 38, 157-175.	0.6	36
33	Enhanced lumped-differential formulations of diffusion problems. <i>Applied Mathematical Modelling</i> , 1998, 22, 137-152.	2.2	35
34	Hybrid formulation and solution for transient conjugated conduction-external convection. <i>International Journal of Heat and Mass Transfer</i> , 2009, 52, 112-123.	2.5	35
35	THE INTEGRAL TRANSFORM METHOD IN COMPUTATIONAL HEAT AND FLUID FLOW. , 1994, , .		34
36	Integral transform method. <i>Applied Mathematical Modelling</i> , 1993, 17, 156-161.	2.2	33

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37	Unsteady Laminar Forced Convection in Ducts With Periodic Variation of Inlet Temperature. Journal of Heat Transfer, 1990, 112, 913-920.	1.2	32
38	Exact solutions for thermally developing tube flow with variable wall heat flux. International Communications in Heat and Mass Transfer, 1994, 21, 729-742.	2.9	32
39	Mixed symbolic-numeric computation of convective heat transfer with slip flow in microchannels. International Communications in Heat and Mass Transfer, 2005, 32, 341-348.	2.9	32
40	Integral transform solution of eigenvalue problems. Communications in Numerical Methods in Engineering, 1994, 10, 827-835.	1.3	31
41	Natural convection in three-dimensional porous cavities: integral transform method. International Journal of Heat and Mass Transfer, 2002, 45, 3013-3032.	2.5	31
42	Hybrid integral transforms analysis of the bioheat equation with variable properties. International Journal of Thermal Sciences, 2010, 49, 1510-1516.	2.6	31
43	Inverse analysis with integral transformed temperature fields: Identification of thermophysical properties in heterogeneous media. International Journal of Heat and Mass Transfer, 2011, 54, 1506-1519.	2.5	31
44	Transient forced convection in laminar channel flow with stepwise variations of wall temperature. Canadian Journal of Chemical Engineering, 1986, 64, 734-742.	0.9	30
45	Laminar forced convection to non-Newtonian fluids in ducts with prescribed wall heat flux. International Communications in Heat and Mass Transfer, 1986, 13, 325-334.	2.9	30
46	Integral transform solution of Luikov's equations for heat and mass transfer in capillary porous media. International Journal of Heat and Mass Transfer, 1993, 36, 4467-4475.	2.5	30
47	Integral transform methodology for convection-diffusion problems in petroleum reservoir engineering. International Journal of Heat and Mass Transfer, 1995, 38, 3359-3367.	2.5	28
48	Integral transform solution of developing laminar duct flow in Navier-Stokes formulation. International Journal for Numerical Methods in Fluids, 1995, 20, 1203-1213.	0.9	28
49	Lumped- Differential Formulations for Drying in Capillary Porous Media. Drying Technology, 1997, 15, 811-835.	1.7	28
50	TRANSIENT NATURAL CONVECTION INSIDE POROUS CAVITIES: HYBRID NUMERICAL-ANALYTICAL SOLUTION AND MIXED SYMBOLIC-NUMERICAL COMPUTATION. Numerical Heat Transfer; Part A: Applications, 2000, 38, 89-110.	1.2	28
51	Conjugated Convection-Conduction Analysis in Microchannels With Axial Diffusion Effects and a Single Domain Formulation. Journal of Heat Transfer, 2013, 135, .	1.2	28
52	Integral transform solution for hyperbolic heat conduction in a finite slab. International Communications in Heat and Mass Transfer, 2009, 36, 297-303.	2.9	27
53	Modeling and hybrid simulation of slow discharge process of adsorbed methane tanks. International Journal of Thermal Sciences, 2009, 48, 1176-1183.	2.6	27
54	Periodic laminar forced convection within ducts including wall heat conduction effects. International Journal of Engineering Science, 1991, 29, 535-547.	2.7	26

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55	Integral transform analysis of natural convection in porous enclosures. International Journal for Numerical Methods in Fluids, 1993, 17, 787-801.	0.9	26
56	Stability of Natural Convection in Superposed Fluid and Porous Layers Using Integral Transforms. Numerical Heat Transfer, Part B: Fundamentals, 2006, 50, 409-424.	0.6	26
57	Improved lumped-differential formulations and hybrid solution methods for drying in porous media. International Journal of Thermal Sciences, 2007, 46, 878-889.	2.6	26
58	THE UNIFIED INTEGRAL TRANSFORMS (UNIT) ALGORITHM WITH TOTAL AND PARTIAL TRANSFORMATION. Computational Thermal Sciences, 2014, 6, 507-524.	0.5	26
59	Integral transform method for boundary layer equations in simultaneous heat and fluid flow problems. International Journal of Numerical Methods for Heat and Fluid Flow, 1995, 5, 225-237.	1.6	25
60	The effects of preferential flow and soil texture on risk assessments of a NORM waste disposal site. Journal of Hazardous Materials, 2010, 174, 648-655.	6.5	25
61	Experimental Identification of Thermophysical Properties in Heterogeneous Materials with Integral Transformation of Temperature Measurements from Infrared Thermography. Experimental Heat Transfer, 2013, 26, 1-25.	2.3	25
62	Nonlinear eigenvalue problem in the integral transforms solution of convection-diffusion with nonlinear boundary conditions. International Journal of Numerical Methods for Heat and Fluid Flow, 2016, 26, 767-789.	1.6	25
63	Analytical Heat and Fluid Flow in Microchannels and Microsystems. Mechanical Engineering Series, 2016, , .	0.1	25
64	Contaminant transport in finite fractured porous medium: integral transforms and lumped-differential formulations. Annals of Nuclear Energy, 2003, 30, 261-285.	0.9	24
65	Recent advances in computational-analytical integral transforms for convection-diffusion problems. Heat and Mass Transfer, 2018, 54, 2475-2496.	1.2	24
66	Improved Hybrid Lumped-Differential Formulation for Double-Pipe Heat Exchanger Analysis. Journal of Heat Transfer, 1993, 115, 921-927.	1.2	23
67	Conjugated Periodic Turbulent Forced Convection in a Parallel Plate Channel. Journal of Heat Transfer, 1994, 116, 40-46.	1.2	23
68	On the solution of non-linear drying problems in capillary porous media through integral transformation of Luikov equations. International Journal for Numerical Methods in Engineering, 1995, 38, 1001-1020.	1.5	23
69	Analytical and hybrid solutions of diffusion problems within arbitrarily shaped regions via integral transforms. Computational Mechanics, 2002, 29, 265-276.	2.2	23
70	Theoretical and experimental analysis of conjugated heat transfer in nanocomposite heat spreaders with multiple microchannels. International Journal of Heat and Mass Transfer, 2014, 74, 306-318.	2.5	23
71	Single domain integral transform analysis of natural convection in cavities partially filled with heat generating porous medium. Numerical Heat Transfer; Part A: Applications, 2018, 74, 1068-1086.	1.2	23
72	Analytical solutions to simultaneously developing laminar flow inside parallel-plate channels. International Journal of Heat and Mass Transfer, 1992, 35, 887-895.	2.5	22

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73	Theoretical and experimental analysis of heat transfer in nonhomogeneous solids via improved lumped formulation, integral transforms and infrared thermography. <i>International Journal of Thermal Sciences</i> , 2012, 62, 71-84.	2.6	22
74	Heat Transfer in Microchannels with Upstream and Downstream Regions Coupling and Wall Conjugation Effects. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2013, 64, 365-387.	0.6	22
75	Thermal analysis of anti-icing systems in aeronautical velocity sensors and structures. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2016, 38, 1489-1509.	0.8	22
76	Coupled integral equation approach for solving phase-change problems in a finite slab. <i>Journal of the Franklin Institute</i> , 1990, 327, 225-234.	1.9	21
77	Engineering Analysis of Ablative Thermal Protection for Atmospheric Reentry: Improved Lumped Formulations and Symbolic Numerical Computation. <i>Heat Transfer Engineering</i> , 2004, 25, 101-111.	1.2	21
78	Mathematical Parameters of the COVID-19 Epidemic in Brazil and Evaluation of the Impact of Different Public Health Measures. <i>Biology</i> , 2020, 9, 220.	1.3	21
79	Analysis of the membrane effects on the energy efficiency of water desalination in a direct contact membrane distillation (DCMD) system with heat recovery. <i>Applied Thermal Engineering</i> , 2021, 182, 116063.	3.0	21
80	Integral transform solution of a two-dimensional model for contaminant dispersion in rivers and channels with spatially variable coefficients. <i>Environmental Modelling and Software</i> , 2006, 21, 699-709.	1.9	20
81	Integral transform solution of internal flow problems based on Navier-Stokes equations and primitive variables formulation. <i>International Journal for Numerical Methods in Engineering</i> , 2007, 69, 544-561.	1.5	20
82	Improved lumped model for thermal analysis of high burn-up nuclear fuel rods. <i>Progress in Nuclear Energy</i> , 2008, 50, 767-773.	1.3	20
83	TRANSIENT HEAT TRANSFER IN CHANNEL FLOW WITH STEP CHANGE IN INLET TEMPERATURE. <i>Numerical Heat Transfer</i> , 1986, 9, 619-630.	0.5	19
84	Laminar flow inside hexagonal ducts. <i>Computational Mechanics</i> , 1990, 6, 93-100.	2.2	19
85	MIXED FINITE-DIFFERENCE/INTEGRAL TRANSFORM APPROACH FOR PARABOLIC-HYPERBOLIC PROBLEMS IN TRANSIENT FORCED CONVECTION. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 1994, 25, 433-448.	0.6	19
86	Benchmark results for internal forced convection through integral transformation. <i>International Communications in Heat and Mass Transfer</i> , 1996, 23, 1019-1029.	2.9	19
87	Eigenvalues for the Graetz problem in slip-flow. <i>International Communications in Heat and Mass Transfer</i> , 1997, 24, 449-451.	2.9	19
88	Integral transformation of the Navier-Stokes equations in cylindrical geometry. <i>Computational Mechanics</i> , 1998, 21, 60-70.	2.2	19
89	Integral transforms for three-dimensional steady turbulent dispersion in rivers and channels. <i>Applied Mathematical Modelling</i> , 2007, 31, 2719-2732.	2.2	19
90	Analysis of magnetohydrodynamic natural convection in closed cavities through integral transforms. <i>International Journal of Heat and Mass Transfer</i> , 2017, 113, 502-513.	2.5	19

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91	On the mass transport in membraneless flow batteries with flow-by configuration. <i>International Journal of Heat and Mass Transfer</i> , 2018, 122, 954-966.	2.5	19
92	Flow development in entrance region of ducts. <i>Communications in Numerical Methods in Engineering</i> , 1993, 9, 503-509.	1.3	18
93	A cape of HDT industrial reactor for middle distillates. <i>Computers and Chemical Engineering</i> , 2000, 24, 1731-1735.	2.0	18
94	Laminar flow and convective heat transfer of non-Newtonian fluids in doubly connected ducts. <i>International Journal of Heat and Mass Transfer</i> , 2010, 53, 2434-2448.	2.5	18
95	Integral transforms solution for flow development in wavy wall ducts. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2011, 21, 219-243.	1.6	18
96	Heat transfer in laminar flow with wall axial conduction and external convection. <i>Journal of Thermophysics and Heat Transfer</i> , 1991, 5, 508-513.	0.9	17
97	Transient Analysis of Slip Flow and Heat Transfer in Microchannels. <i>Heat Transfer Engineering</i> , 2007, 28, 549-558.	1.2	17
98	Assessment of the mineral industry NORM/TENORM disposal in hazardous landfills. <i>Journal of Hazardous Materials</i> , 2007, 139, 563-568.	6.5	17
99	Inverse analysis of forced convection in micro-channels with slip flow via integral transforms and Bayesian inference. <i>International Journal of Thermal Sciences</i> , 2010, 49, 879-888.	2.6	17
100	Space-variable thermophysical properties identification in nanocomposites via integral transforms, Bayesian inference and infrared thermography. <i>Inverse Problems in Science and Engineering</i> , 2012, 20, 609-637.	1.2	17
101	Ordering rules for double and triple eigenseries in the solution of multidimensional heat and fluid flow problems. <i>International Communications in Heat and Mass Transfer</i> , 1996, 23, 299-303.	2.9	16
102	On the reduction of computational costs in eigenfunction expansions of multidimensional diffusion problems. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 1997, 7, 675-695.	1.6	16
103	Periodic laminar forced convection: solution via symbolic computation and integral transforms. <i>International Journal of Thermal Sciences</i> , 1999, 38, 613-621.	2.6	16
104	Natural convection in a shallow cylindrical annuli. <i>International Journal of Heat and Mass Transfer</i> , 2002, 45, 2967-2981.	2.5	16
105	Analysis of transient and periodic convection in microchannels via integral transforms. <i>Progress in Computational Fluid Dynamics</i> , 2006, 6, 321.	0.1	16
106	Eigenfunction Expansion Solution for Boundary-Layer Equations in Cylindrical Coordinates: Simultaneously Developing Flow in Circular Tubes. <i>Numerical Heat Transfer; Part A: Applications</i> , 2007, 52, 1123-1149.	1.2	16
107	An Analysis of Heat Conduction Models for Nanofluids. <i>Heat Transfer Engineering</i> , 2010, 31, 1125-1136.	1.2	16
108	Integral Transforms and Bayesian Inference in the Identification of Variable Thermal Conductivity in Two-Phase Dispersed Systems. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2010, 57, 173-202.	0.6	16

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109	Analysis of conjugated heat transfer in micro-heat exchangers via integral transforms and non-intrusive optical techniques. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2015, 25, 1444-1462.	1.6	16
110	ON THE SOLUTION OF NONLINEAR ELLIPTIC CONVECTION-DIFFUSION PROBLEMS THROUGH THE INTEGRAL TRANSFORM METHOD. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 1993, 23, 401-411.	0.6	15
111	Integral transformation of elliptic problems within irregular domains. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 1997, 7, 778-793.	1.6	15
112	Combining Integral Transforms and Bayesian Inference in the Simultaneous Identification of Variable Thermal Conductivity and Thermal Capacity in Heterogeneous Media. <i>Journal of Heat Transfer</i> , 2011, 133, .	1.2	15
113	Bayesian estimation of the hydraulic and solute transport properties of a small-scale unsaturated soil column. <i>Journal of Hydrology and Hydromechanics</i> , 2016, 64, 30-44.	0.7	15
114	A comparison of convergence acceleration schemes for eigenfunction expansions of partial differential equations. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 1996, 6, 85-97.	1.6	14
115	IMPROVED APPROXIMATE FORMULATIONS FOR ANISOTROPIC HEAT CONDUCTION. <i>International Communications in Heat and Mass Transfer</i> , 1997, 24, 869-878.	2.9	14
116	ANALYSIS OF INTERNAL CONVECTION WITH VARIABLE PHYSICAL PROPERTIES VIA INTEGRAL TRANSFORMATION. <i>Numerical Heat Transfer; Part A: Applications</i> , 1999, 36, 699-724.	1.2	14
117	Integral transform solution for natural convection in three-dimensional porous cavities: Aspect ratio effects. <i>International Journal of Heat and Mass Transfer</i> , 2006, 49, 4687-4695.	2.5	14
118	A review of hybrid integral transform solutions in fluid flow problems with heat or mass transfer and under Navier-Stokes equations formulation. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2019, 76, 60-87.	0.6	14
119	Hybrid solution of the averaged Navier-Stokes equations for turbulent flow. <i>Computational Mechanics</i> , 1997, 19, 297-307.	2.2	13
120	MIXED CONVECTION WITHIN VERTICAL PARALLEL PLATES: HYBRID SOLUTION BY INTEGRAL TRANSFORMS. <i>Numerical Heat Transfer; Part A: Applications</i> , 1998, 33, 85-106.	1.2	13
121	Enhanced convergence of eigenfunction expansions in convection-diffusion with multiscale space variable coefficients. <i>Numerical Heat Transfer; Part A: Applications</i> , 2016, 70, 492-512.	1.2	13
122	Conjugated heat transfer in circular microchannels with slip flow and axial diffusion effects. <i>International Communications in Heat and Mass Transfer</i> , 2018, 91, 225-233.	2.9	13
123	Estimation of the temperature field in laser-induced hyperthermia experiments with a phantom. <i>International Journal of Hyperthermia</i> , 2018, 35, 279-290.	1.1	13
124	Laminar thermally developing flow inside right-angulary triangular ducts. <i>Flow, Turbulence and Combustion</i> , 1992, 49, 355-368.	0.2	12
125	On the solution of periodic multidimensional diffusion problems. <i>International Communications in Heat and Mass Transfer</i> , 1989, 16, 569-579.	2.9	11
126	Analysis of unsteady forced convection in turbulent duct flow. <i>Journal of Thermophysics and Heat Transfer</i> , 1995, 9, 508-515.	0.9	11

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127	Developing turbulent duct flow: hybrid solution via integral transforms and algebraic model. International Journal of Numerical Methods for Heat and Fluid Flow, 1998, 8, 10-26.	1.6	11
128	Compressible flow and heat transfer in ultracentrifuges: hybrid analysis via integral transforms. International Journal of Heat and Mass Transfer, 2002, 45, 99-112.	2.5	11
129	Integral transforms in the two-dimensional non-linear formulation of longitudinal fins with variable profile. International Journal of Numerical Methods for Heat and Fluid Flow, 1998, 8, 27-42.	1.6	10
130	Integral transform solution of the Navier-Stokes equations in full cylindrical regions with streamfunction formulation. International Journal for Numerical Methods in Biomedical Engineering, 2010, 26, 1417-1434.	1.0	10
131	Thermal-Diffusivity Measurements of Conductive Composites Based on EVA Copolymer Filled With Expanded and Unexpanded Graphite. International Journal of Thermophysics, 2013, 34, 2297-2306.	1.0	10
132	Estimation of Tumor Size Evolution Using Particle Filters. Journal of Computational Biology, 2015, 22, 649-665.	0.8	10
133	Convective Eigenvalue Problems for Convergence Enhancement of Eigenfunction Expansions in Convection-Diffusion Problems. Journal of Thermal Science and Engineering Applications, 2018, 10, .	0.8	10
134	Detection of contact failures with the Markov chain Monte Carlo method by using integral transformed measurements. International Journal of Thermal Sciences, 2018, 132, 486-497.	2.6	10
135	Vector eigenfunction expansion in the integral transform solution of transient natural convection. International Journal of Numerical Methods for Heat and Fluid Flow, 2019, 29, 2684-2708.	1.6	10
136	Steady-periodic hyperbolic heat conduction in a finite slab. International Communications in Heat and Mass Transfer, 1997, 24, 725-731.	2.9	9
137	INTEGRAL TRANSFORM SOLUTION OF THE LAMINAR THERMAL BOUNDARY LAYER PROBLEM FOR FLOW PAST TWO-DIMENSIONAL AND AXISYMMETRIC BODIES. Numerical Heat Transfer; Part A: Applications, 1998, 33, 779-797.	1.2	9
138	Analytical Advection-Dispersion Model for Transport and Plant Uptake of Contaminants in the Root Zone. Vadose Zone Journal, 2007, 6, 890-898.	1.3	9
139	Integral transform solution of transient forced convection in external flow. International Communications in Heat and Mass Transfer, 2007, 34, 703-712.	2.9	9
140	Integral transform solutions for atmospheric pollutant dispersion. Environmental Modeling and Assessment, 2008, 13, 53-65.	1.2	9
141	Experiments and Simulations in Transient Conjugated Conduction-Convection-Radiation. Heat Transfer Research, 2010, 41, 209-231.	0.9	9
142	Finite Difference Methods in Heat Transfer, Second Edition. , 0, , .		9
143	Heat transfer in turbulent forced convection between parallel plates. Canadian Journal of Chemical Engineering, 1989, 67, 771-776.	0.9	8
144	Heat transfer solutions in laminar co-current flow of immiscible liquids. Heat and Mass Transfer, 1990, 25, 361-367.	0.2	8

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145	Counterflow double-pipe heat exchanger analysis using a mixed lumped-differential formulation. International Journal of Heat and Mass Transfer, 1992, 35, 1723-1731.	2.5	8
146	Analytical Solution of the Tracer Equation for the Homogeneous Five-Spot Problem. SPE Journal, 1996, 1, 31-38.	1.7	8
147	Identification of Contact Failures in Multilayered Composites With the Markov Chain Monte Carlo Method. Journal of Heat Transfer, 2014, 136, .	1.2	8
148	Hybrid integral transforms for flow development in ducts partially filled with porous media. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2018, 474, 20170637.	1.0	8
149	Analytical Methods in Heat Transfer. , 2018, , 61-126.		8
150	Macroscopic Heat Conduction Formulation. , 2018, , 3-59.		8
151	Heat and mass transfer in hollow-fiber modules for direct contact membrane distillation: Integral transforms solution and parametric analysis. International Communications in Heat and Mass Transfer, 2019, 109, 104373.	2.9	8
152	Integral transforms for flow and transport in discrete and continuum models of fractured heterogeneous porous media. Advances in Water Resources, 2020, 142, 103621.	1.7	8
153	On the eigenvalues basic to the analytical solution of convective heat transfer with axial diffusion effects. Communications in Numerical Methods in Engineering, 1995, 11, 287-296.	1.3	7
154	Measurement of thermophysical properties of ceramics by the flash method. Brazilian Archives of Biology and Technology, 2006, 49, 31-40.	0.5	7
155	Unified Integral Transform Approach in the Hybrid Solution of Multidimensional Nonlinear Convection-Diffusion Problems. , 2010, , .		7
156	Conjugated Heat Transfer Analysis of Heated Aeronautical Pitot Probes With Flight Tests Experimental Validation. Heat Transfer Engineering, 2015, 36, 991-1000.	1.2	7
157	Transient three-dimensional heat conduction in heterogeneous media: Integral transforms and single domain formulation. International Communications in Heat and Mass Transfer, 2020, 117, 104792.	2.9	7
158	Integral Transforms in Computational Heat and Fluid Flow. , 0, , .		7
159	Dynamic analysis of double-pipe heat exchangers subjected to periodic inlet temperature disturbances. Heat and Mass Transfer, 1993, 28, 497-503.	0.2	6
160	Fully developed turbulent flow in ducts with symmetric and asymmetric rough walls. Chemical Engineering Journal, 1999, 74, 147-153.	6.6	6
161	Local-instantaneous filtering in the integral transform solution of nonlinear diffusion problems. Computational Mechanics, 1999, 23, 524-532.	2.2	6
162	Experiments and Simulations of Laminar Forced Convection With Water-Alumina Nanofluids in Circular Tubes. Heat Transfer Engineering, 2013, 34, 447-459.	1.2	6

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163	Analysis of the mass transport in corrugated membraneless flow batteries. Applied Mathematical Modelling, 2020, 77, 1512-1530.	2.2	6
164	Integral transform analysis of convective heat transfer within wavy walls channels. Numerical Heat Transfer; Part A: Applications, 2020, 77, 460-481.	1.2	6
165	EXACT SOLUTION OF LUIKOV'S EQUATIONS FOR DRYING IN CAPILLARY POROUS MEDIA. Hybrid Methods in Engineering, 1999, 1, 24.	0.1	6
166	ANALYSIS OF LAMINAR FORCED CONVECTION IN ANNULAR DUCTS USING INTEGRAL TRANSFORMS. Hybrid Methods in Engineering, 2000, 2, 12.	0.1	6
167	ERROR ANALYSIS OF MIXED LUMPED-DIFFERENTIAL FORMULATIONS IN DIFFUSION PROBLEMS. Hybrid Methods in Engineering, 2000, 2, 28.	0.1	6
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