Helcio Rangel Barreto Orlande

List of Publications by Year
in descending order

161 papers	2,211 citations	236612 25 h-index	344852 36 g-index
180 all docs	180 docs citations	180 times ranked	1268 citing authors

#	Article	IF	Citations
1	Experimental study and mathematical modelling of red mud leaching: application of Bayesian techniques. International Journal of Environmental Science and Technology, 2023, 20, 5533-5546.	1.8	7
2	Sequential Estimation of the Radial Temperature Variation in Overhead Power Cables. Heat Transfer Engineering, 2022, 43, 1610-1623.	1.2	2
3	Simultaneous estimation of temperature and emissivity of metals around their melting points by deterministic and Bayesian techniques. International Journal of Heat and Mass Transfer, 2022, 183, 122077.	2.5	8
4	Thermal Ablation Effects on Rotors that Characterize Functional Reâ€entry Cardiac Arrhythmia. International Journal for Numerical Methods in Biomedical Engineering, 2022, , e3614.	1.0	0
5	An inverse analysis of the brain cooling process in neonates using the particle filter method. International Journal of Numerical Methods for Heat and Fluid Flow, 2022, 32, 3908-3934.	1.6	2
6	Kalman filter temperature estimation with a photoacoustic observation model during the hyperthermia treatment of cancer. Computers and Mathematics With Applications, 2022, 119, 193-207.	1.4	4
7	A Bayesian approach for neutral particles source estimation. Inverse Problems in Science and Engineering, 2021, 29, 95-130.	1.2	0
8	Computational model of silica nanoparticle penetration into tumor spheroids: Effects of methoxy and carboxy PEG surface functionalization and hyperthermia. International Journal for Numerical Methods in Biomedical Engineering, 2021, 37, e3504.	1.0	3
9	Monte Carlo parameter estimation and direct simulation of inÂvitro hyperthermia-chemotherapy experiment. Numerical Heat Transfer; Part A: Applications, 2021, 80, 185-209.	1.2	4
10	Temperature estimation of inflamed bowel by the photoacoustic inverse approach. International Journal for Numerical Methods in Biomedical Engineering, 2020, 36, e3300.	1.0	5
11	Synthesis, characterization and photothermal analysis of nanostructured hydrides of Pd and PdCeO2. Scientific Reports, 2020, 10, 17561.	1.6	5
12	Parameter estimation and model selection for water sorption in a wood fibre material. Wood Science and Technology, 2020, 54, 1423-1446.	1.4	5
13	Real-time temperature estimation with enhanced spatial resolution during MR-guided hyperthermia therapy. Numerical Heat Transfer; Part A: Applications, 2020, 77, 782-806.	1.2	9
14	Nondestructive, real time technique for in-plane heat diffusivity measurements. International Journal of Heat and Mass Transfer, 2020, 154, 119659.	2.5	13
15	Thermal Effect by Applying Laser Heating in Iron Oxide Nanoparticles Dissolved in Distilled Water. IFMBE Proceedings, 2020, , 1239-1245.	0.2	3
16	Approximate Bayesian computation applied to the identification of thermal damage of biological tissues due to laser irradiation. International Journal of Thermal Sciences, 2020, 151, 106243.	2.6	6
17	Thermal Characterization of Ex Vivo Tissue. Critical Reviews in Biomedical Engineering, 2020, 48, 111-124.	0.5	0
18	A Bayesian approach for the estimation of the thermal diffusivity of aerodynamically levitated solid metals at high temperatures. International Journal of Heat and Mass Transfer, 2019, 141, 265-281.	2.5	16

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19	Estimation of the kidney metabolic heat generation rate. International Journal for Numerical Methods in Biomedical Engineering, 2019, 35, e3224.	1.0	3
20	Coupled POD-Bayesian estimation of the parameters of mathematical model of the packed-bed drying of cherry stones. Energy, 2019, 181, 345-359.	4.5	2
21	Computational fluid dynamic analysis of physical forces playing a role in brain organoid cultures in two different multiplex platforms. BMC Developmental Biology, 2019, 19, 3.	2.1	31
22	Application of the photoacoustic technique for temperature measurements during hyperthermia. Inverse Problems in Science and Engineering, 2019, 27, 1651-1671.	1.2	3
23	Estimation of parameters of the dual-phase-lag model for heat conduction in metal-oxide-semiconductor field-effect transistors. International Communications in Heat and Mass Transfer, 2018, 92, 107-111.	2.9	9
24	State estimation problems in PRF-shift magnetic resonance thermometry. International Journal of Numerical Methods for Heat and Fluid Flow, 2018, 28, 315-335.	1.6	2
25	Model selection and parameter estimation in tumor growth models using approximate Bayesian computation-ABC. Computational and Applied Mathematics, 2018, 37, 2795-2815.	1.3	13
26	Simultaneous Model Selection and Model Calibration for the Proliferation of Tumor and Normal Cells During In Vitro Chemotherapy Experiments. Journal of Computational Biology, 2018, 25, 1285-1300.	0.8	2
27	Estimation of the temperature field in laser-induced hyperthermia experiments with a phantom. International Journal of Hyperthermia, 2018, 35, 279-290.	1.1	13
28	Thermal conductivity of heavy, even-carbon number n-alkanes (C22ÂtoÂC32). Fluid Phase Equilibria, 2018, 477, 78-86.	1.4	26
29	Thermophysical Properties Measurement and Identification. , 2018, , 179-218.		0
30	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
31	Thermal damage during ablation of biological tissues. Numerical Heat Transfer; Part A: Applications, 2018, 73, 685-701.	1.2	11
32	INTERNAL TEMPERATURE FIELD ESTIMATION IN WATER-FILTERED INFRA-RED-A (wIRA) HYPERTHERMIA OF BREAST CANCER FROM SKIN SURFACE TEMPERATURE MEASUREMENTS. , 2018, , .		0
33	MAGNETIC RESONANCE THERMOMETRY DURING THE LOCALIZED HEATING OF BIOLOGICAL TISSUES. , 2018, , .		0
34	EXPERIMENTAL ESTIMATION OF A HEAT FLUX IMPOSED BY A LASER DIODE WITH THE STEADY STATE KALMAN FILTER. , 2018, , .		0
35	Numerical simulation of nanoparticles assisted laser photothermal therapy: a comparison of the P1-approximation and discrete ordinate methods. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2017, 39, 621-630.	0.8	5
36	Inverse problem in the hyperthermia therapy of cancer with laser heating and plasmonic nanoparticles. Inverse Problems in Science and Engineering, 2017, 25, 608-631.	1.2	12

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37	Proper Generalized Decomposition model reduction in the Bayesian framework for solving inverse heat transfer problems. Inverse Problems in Science and Engineering, 2017, 25, 260-278.	1.2	17
38	Inverse Photoacoustic Technique for Parameter and Temperature Estimation in Tissues. Heat Transfer Engineering, 2017, 38, 1573-1594.	1.2	11
39	Thermal tomography utilizing truncated Fourier series approximation of the heat diffusion equation. International Journal of Heat and Mass Transfer, 2017, 108, 860-867.	2.5	11
40	Particle Filter and Approximation Error Model for State Estimation in Hyperthermia. Journal of Heat Transfer, 2017, 139, .	1.2	18
41	State estimation in bioheat transfer: a comparison of particle filter algorithms. International Journal of Numerical Methods for Heat and Fluid Flow, 2017, 27, 615-638.	1.6	20
42	Estimation of the non-linear diffusion coefficient with Marcov Chain Monte Carlo method based on the integral information. International Journal of Numerical Methods for Heat and Fluid Flow, 2017, 27, 639-659.	1.6	3
43	Bayesian estimate of pre-mixed and diffusive rate of heat release phases in marine diesel engines. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2017, 39, 1835-1844.	0.8	12
44	Multi-Objective Optimization of Micro Pin-Fin Arrays for Cooling of High Heat Flux Electronics with a Hot Spot. Heat Transfer Engineering, 2017, 38, 1235-1246.	1.2	27
45	Thermophysical Properties Measurement and Identification. , 2017, , 1-40.		0
46	Thermal analysis of anti-icing systems in aeronautical velocity sensors and structures. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2016, 38, 1489-1509.	0.8	22
47	Inverse determination of spatially varying material coefficients in solid objects. Journal of Inverse and Ill-Posed Problems, 2016, 24, 181-194.	0.5	8
48	Bayesian inference for estimating thermal properties of a historic building wall. Building and Environment, 2016, 106, 327-339.	3.0	40
49	Combined parameter and state estimation in the radio frequency hyperthermia treatment of cancer. Numerical Heat Transfer; Part A: Applications, 2016, 70, 581-594.	1.2	17
50	Combined Parameter and State Estimation Problem in a Complex Domain: RF Hyperthermia Treatment Using Nanoparticles. Journal of Physics: Conference Series, 2016, 745, 032014.	0.3	4
51	Professor Oleg M. Alifanov on his 75th birthday. International Journal of Heat and Mass Transfer, 2016, 97, 1010-1011.	2.5	0
52	An analytical method to estimate spatially-varying thermal contact conductances using the reciprocity functional and the integral transform methods: Theory and experimental validation. International Journal of Heat and Mass Transfer, 2016, 100, 599-607.	2.5	10
53	Real-time identification of a high-magnitude boundary heat flux on a plate. Inverse Problems in Science and Engineering, 2016, 24, 1661-1679.	1.2	14
54	Bayesian estimation of the hydraulic and solute transport properties of a small-scale unsaturated soil column. Journal of Hydrology and Hydromechanics, 2016, 64, 30-44.	0.7	15

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55	Thermography detection of contact failures in double layered materials using the reciprocity functional approach. Applied Thermal Engineering, 2016, 100, 1173-1178.	3.0	14
56	A COMPARISON OF PARTICLE FILTER ALGORITHMS APPLIED TO THE TEMPERATURE FIELD ESTIMATION IN HYPERTHERMIA PHANTOMS. , 2016, , .		1
57	Multi-Objective Optimization of Micro Pin-Fin Arrays for Cooling of High Heat Flux Electronics With a Hot Spot. , 2015, , .		2
58	Transient non-intrusive method for estimating spatial thermal contact conductance by means of the reciprocity functional approach and the method of fundamental solutions. Inverse Problems in Science and Engineering, 2015, 23, 688-717.	1.2	12
59	Estimation of a Location- and Time-Dependent High-Magnitude Heat Flux in a Heat Conduction Problem Using the Kalman Filter and the Approximation Error Model. Numerical Heat Transfer; Part A: Applications, 2015, 68, 1198-1219.	1.2	11
60	Estimation of Tumor Size Evolution Using Particle Filters. Journal of Computational Biology, 2015, 22, 649-665.	0.8	10
61	Bayesian approach to the inverse problem in a light scattering application. Journal of Applied Statistics, 2015, 42, 994-1016.	0.6	9
62	Selected Papers From the 14th Brazilian Congress of Thermal Sciences and Engineeringâ€”ENCIT 2012. Heat Transfer Engineering, 2015, 36, 927-928.	1.2	1
63	Estimation of state variables in the hyperthermia therapy of cancer with heating imposed by radiofrequency electromagnetic waves. International Journal of Thermal Sciences, 2015, 98, 228-236.	2.6	38
64	NEAR INFRARED LIGHT HEATING OF SOFT TISSUE PHANTOMS CONTAINING NANOPARTICLES. Revista De Engenharia TÃ©rmica, 2014, 13, 13.	0.0	0
65	Identification of Contact Failures in Multilayered Composites With the Markov Chain Monte Carlo Method. Journal of Heat Transfer, 2014, 136, .	1.2	8
66	A statistical inversion approach for local thermal diffusivity and heat flux simultaneous estimation. Quantitative InfraRed Thermography Journal, 2014, 11, 170-189.	2.1	10
67	Accelerated Bayesian Inference for the Estimation of Spatially Varying Heat Flux in a Heat Conduction Problem. Numerical Heat Transfer; Part A: Applications, 2014, 65, 1-25.	1.2	37
68	3D thermal tomography with experimental measurement data. International Journal of Heat and Mass Transfer, 2014, 78, 1126-1134.	2.5	24
69	USE OF PARTICLE FILTERS TO ESTIMATE RELATIVE AIR SPEED IN A PITOT TUBE. , 2014, , .		1
70	State Estimation Problem in the Hyperthermia Treatment of Tumors Loaded with Nanoparticles. , 2014, , .		4
71	A Non-Intrusive Inverse Problem Technique for the Identification of Contact Failures in Double-Layered Composites. , 2014, , .		7
72	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

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73	Pipeline Heating Method Based on Optimal Control and State Estimation. Heat Transfer Engineering, 2013, 34, 511-519.	1.2	9
74	Fabrication Methods of Phantoms Simulating Optical and Thermal Properties. Procedia Engineering, 2013, 59, 30-36.	1.2	14
75	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
76	Selected Papers from the Thirteenth Brazilian Congress of Thermal Sciences and Engineeringâ€"ENCIT 2010. Heat Transfer Engineering, 2013, 34, 399-400.	1.2	1
77	Thermal Tomography Using Experimental Measurement Data. , 2013, , .		0
78	Fast Bayesian inference for an inverse heat transfer problem using approximations. , 2012, , .		4
79	Estimation of position-dependent transient heat source with the Kalman filter. Inverse Problems in Science and Engineering, 2012, 20, 1079-1099.	1.2	19
80	Application of Two Bayesian Filters to Estimate Unknown Heat Fluxes in a Natural Convection Problem. Journal of Heat Transfer, 2012, 134, .	1.2	8
81	Size distribution of nanoparticles by dynamic light scattering. Comparison of Bayesian and Tikhonov inversion methods. Inverse Problems in Science and Engineering, 2012, 20, 973-990.	1.2	6
82	Theoreticalâ€"experimental analysis of heat transfer in nonhomogeneous solids via improved lumped formulation, integral transforms and infrared thermography. International Journal of Thermal Sciences, 2012, 62, 71-84.	2.6	22
83	Simultaneous estimation of spatially distributed thermal conductivity, heat capacity and surface heat transfer coefficient in thermal tomography. International Journal of Heat and Mass Transfer, 2012, 55, 7958-7968.	2.5	25
84	Space-variable thermophysical properties identification in nanocomposites via integral transforms, Bayesian inference and infrared thermography. Inverse Problems in Science and Engineering, 2012, 20, 609-637.	1.2	17
85	Inverse Problems in Heat Transfer: New Trends on Solution Methodologies and Applications. Journal of Heat Transfer, 2012, 134, .	1.2	72
86	STATE ESTIMATION PROBLEMS IN HEAT TRANSFER. , 2012, 2, 239-258.		24
87	Global estimation of thermal parameters from a picoseconds thermoreflectometry experiment. International Journal of Thermal Sciences, 2012, 57, 17-24.	2.6	5
88	Inverse Problems in Aerodynamics, Heat Transfer, Elasticity and Materials Design. International Journal of Aeronautical and Space Sciences, 2012, 13, 405-420.	1.0	12
89	Inverse Heat Transfer Problems. Heat Transfer Engineering, 2011, 32, 715-717.	1.2	24
90	Bayesian estimation of thermophysical parameters of thin metal films heated by fast laser pulses. International Communications in Heat and Mass Transfer, 2011, 38, 1172-1177.	2.9	6

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91	A Bayesian inversion method for estimating the particle size distribution of latexes from multiangle dynamic light scattering measurements. Chemometrics and Intelligent Laboratory Systems, 2011, 107, 165-173.	1.8	38
92	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
93	Application of a Bayesian Filter to Estimate Unknown Heat Fluxes in a Natural Convection Problem. , 2011, , .		3
94	Combining Integral Transforms and Bayesian Inference in the Simultaneous Identification of Variable Thermal Conductivity and Thermal Capacity in Heterogeneous Media. Journal of Heat Transfer, 2011, 133, .	1.2	15
95	Identification of Contact Failures in Multi-Layered Composites. , 2011, , .		5
96	THEORETICAL-EXPERIMENTAL ANALYSIS OF HEAT TRANSFER IN NANOCOMPOSITES VIA INTEGRAL TRANSFORMS AND INFRARED THERMOGRAPHY. , 2011, , .		0
97	Integral Transforms, Bayesian Inference, and Infrared Thermography in the Simultaneous Identification of Variable Thermal Conductivity and Diffusivity in Heterogeneous Media. , 2010, , .		4
98	Inverse Problems in Heat Transfer: New Trends on Solution Methodologies and Applications. , 2010, , .		1
99	Temperature Field Prediction of a Multilayered Composite Pipeline Based on the Particle Filter Method. , 2010, , .		4
100	Nodal predictive error model and Bayesian approach for thermal diffusivity and heat source mapping. Comptes Rendus - Mecanique, 2010, 338, 434-449.	2.1	14
101	Inverse analysis of forced convection in micro-channels with slip flow via integral transforms and Bayesian inference. International Journal of Thermal Sciences, 2010, 49, 879-888.	2.6	17
102	An Analysis of Heat Conduction Models for Nanofluids. Heat Transfer Engineering, 2010, 31, 1125-1136.	1.2	16
103	Bayesian Estimation of Temperature-Dependent Thermophysical Properties and Transient Boundary Heat Flux. Heat Transfer Engineering, 2010, 31, 570-580.	1.2	38
104	Integral Transforms and Bayesian Inference in the Identification of Variable Thermal Conductivity in Two-Phase Dispersed Systems. Numerical Heat Transfer, Part B: Fundamentals, 2010, 57, 173-202.	0.6	16
105	Direct and Inverse Problems Solutions in Micro-Scale Forced Convection. NATO Science for Peace and Security Series A: Chemistry and Biology, 2010, , 39-59.	0.5	1
106	Selected Papers from the Eleventh Brazilian Congress of Thermal Sciences and Engineeringâ€"ENCIT 2006. Heat Transfer Engineering, 2009, 30, 259-260.	1.2	0
107	Professor Emeritus M. Necati Ã–zisik 1923â€"2008. International Journal of Heat and Mass Transfer, 2009, 52, 2425-2426.	2.5	0
108	Eigenfunction expansions for transient diffusion in heterogeneous media. International Journal of Heat and Mass Transfer, 2009, 52, 5029-5039.	2.5	59

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109	Magnetohydrodynamic simulations using radial basis functions. International Journal of Heat and Mass Transfer, 2009, 52, 5932-5939.	2.5	19
110	Interaction Effects During Combustion of Linear Arrays of Gaseous Fuel Pockets. Numerical Heat Transfer; Part A: Applications, 2008, 54, 1085-1100.	1.2	3
111	Recovering the source term in a linear diffusion problem by the method of fundamental solutions. Inverse Problems in Science and Engineering, 2008, 16, 1005-1021.	1.2	32
112	Approximation of the likelihood function in the Bayesian technique for the solution of inverse problems. Inverse Problems in Science and Engineering, 2008, 16, 677-692.	1.2	42
113	Bayesian approach for thermal diffusivity mapping from infrared images with spatially random heat pulse heating. Journal of Physics: Conference Series, 2008, 135, 012042.	0.3	23
114	Integral Transform Solutions for Diffusion in Heterogeneous Media. , 2008, , .		1
115	Simultaneous estimation of the spacewise and timewise variations of mass and heat transfer coefficients in drying. Inverse Problems in Science and Engineering, 2007, 15, 137-150.	1.2	5
116	Identification and design of source term in a two-region heat conduction problem. Inverse Problems in Science and Engineering, 2007, 15, 661-677.	1.2	3
117	Inverse Approaches to Drying of Thin Bodies With Significant Shrinkage Effects. Journal of Heat Transfer, 2007, 129, 379-386.	1.2	13
118	Selected Papers from the 10th Brazilian Congress of Thermal Sciences and Engineeringâ€ENCIT 2004. Heat Transfer Engineering, 2007, 28, 507-507.	1.2	0
119	Reconstruction of thermal conductivity and heat capacity using a tomographic approach. International Journal of Heat and Mass Transfer, 2007, 50, 5150-5160.	2.5	32
120	Identification of atmospheric boundary layer parameters by inverse problem. Atmospheric Environment, 2007, 41, 1417-1425.	1.9	15
121	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
122	Inverse and optimization problems in heat transfer. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2006, 28, 1-24.	0.8	118
123	Measurement of thermophysical properties of ceramics by the flash method. Brazilian Archives of Biology and Technology, 2006, 49, 31-40.	0.5	7
124	Coupled conductionâ€“radiation in semi-transparent materials at high temperatures. Journal of Physics and Chemistry of Solids, 2006, 67, 2230-2240.	1.9	12
125	Estimation of thermophysical properties of moist materials under different drying conditions. Inverse Problems in Science and Engineering, 2005, 13, 341-353.	1.2	11
126	Analysis of Different Kinds of Measurements on the Estimation of Time Dependent Mass and Heat Transfer Coefficients in Drying. , 2004, , 271.		1

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127	Use of a single heated surface for the estimation of thermal conductivity components of orthotropic 3D solids. Inverse Problems in Science and Engineering, 2004, 12, 501-517.	1.2	5
128	Simultaneous estimation of spatially-dependent mass and heat transfer coefficients of drying bodies. Inverse Problems in Science and Engineering, 2004, 12, 549-561.	1.2	5
129	Estimation of the heat flux at the surface of ablating materials by using temperature and surface position measurements. Inverse Problems in Science and Engineering, 2004, 12, 563-577.	1.2	28
130	Inverse natural convection problem of simultaneous estimation of two boundary heat fluxes in irregular cavities. International Journal of Heat and Mass Transfer, 2004, 47, 1201-1215.	2.5	36
131	Simultaneous estimation of spatially dependent diffusion coefficient and source term in a nonlinear 1D diffusion problem. Mathematics and Computers in Simulation, 2004, 66, 409-424.	2.4	32
132	Selected Papers from the 9th Brazilian Congress of Thermal Sciences and Engineeringâ€"ENCIT 2002. Heat Transfer Engineering, 2004, 25, 1-1.	1.2	0
133	Identification of Heat Flux Imposed by an Oxyacetylene Torch. , 2004, , .		2
134	A nonlinear inverse problem in simultaneously estimating the heat and mass production rates for a chemically reacting fluid. Chemical Engineering Science, 2003, 58, 3741-3752.	1.9	28
135	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
136	Hybrid Approaches in Heat & Mass Transfer: A Brazilian Experience with Applications in National Strategic Projects. Heat Transfer Engineering, 2003, 24, 1-5.	1.2	3
137	Effects of the Heating Process and Body Dimensions on the Estimation of the Thermal Conductivity Components of Orthotropic Solids. Inverse Problems in Science and Engineering, 2003, 11, 75-89.	0.5	17
138	A Comparison of Two Solution Techniques for the Inverse Problem of Simultaneously Estimating the Spatial Variations of Diffusion Coefficients and Source Terms. , 2003, , .		2
139	Estimation of dimensionless parameters of Luikov's system for heat and mass transfer in capillary porous media. International Journal of Thermal Sciences, 2002, 41, 217-227.	2.6	38
140	A Natural Convection Inverse Problem of Simultaneous Estimation of Two Boundary Heat Fluxes in Rectangular Cavities. , 2002, , .		1
141	INVERSE FORCED CONVECTION PROBLEM OF SIMULTANEOUS ESTIMATION OF TWO BOUNDARY HEAT FLUXES IN IRREGULARLY SHAPED CHANNELS. Numerical Heat Transfer; Part A: Applications, 2001, 39, 737-760.	1.2	21
142	Inverse convection problem of simultaneous estimation of two boundary heat fluxes in parallel plate channels. Revista Brasileira De Ciencias Mecanicas/Journal of the Brazilian Society of Mechanical Sciences, 2001, 23, 201-215.	0.1	5
143	A comparison of concentration measurement techniques for the estimation of the apparent mass diffusion coefficient. Brazilian Journal of Chemical Engineering, 2001, 18, 253-265.	0.7	2
144	A solution via generalised intergral transform technique for the simultaneous transport processes during combustion of wood cylinders. International Journal for Numerical Methods in Engineering, 2000, 49, 1455-1477.	1.5	4

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145	Estimation of the Boundary Heat Flux in Grinding via the Conjugate Gradient Method. Heat Transfer Engineering, 2000, 21, 71-82.	1.2	22
146	COMPARISON OF DIFFERENT VERSIONS OF THE CONJUGATE GRADIENT METHOD OF FUNCTION ESTIMATION. Numerical Heat Transfer; Part A: Applications, 1999, 36, 229-249.	1.2	77
147	Local-instantaneous filtering in the integral transform solution of nonlinear diffusion problems. Computational Mechanics, 1999, 23, 524-532.	2.2	6
148	A GENERALIZED COORDINATES APPROACH FOR THE SOLUTION OF INVERSE HEAT CONDUCTION PROBLEMS. , 1998, , .		2
149	On the reduction of computational costs in eigenfunction expansions of multidimensional diffusion problems. International Journal of Numerical Methods for Heat and Fluid Flow, 1997, 7, 675-695.	1.6	16
150	Inverse analysis for estimating the timewise and spacewise variation of the wall heat flux in a parallel plate channel. International Journal of Numerical Methods for Heat and Fluid Flow, 1997, 7, 696-710.	1.6	30
151	IMPROVED APPROXIMATE FORMULATIONS FOR ANISOTROPIC HEAT CONDUCTION. International Communications in Heat and Mass Transfer, 1997, 24, 869-878.	2.9	14
152	A function estimation approach for determining temperature-dependent thermophysical properties. Inverse Problems in Science and Engineering, 1996, 3, 261-279.	0.5	30
153	Transient Thermal Constriction Resistance in a Finite Heat Flux Tube. Journal of Heat Transfer, 1995, 117, 748-751.	1.2	2
154	Inverse analysis for estimating the electronâ€phonon coupling factor in thin metal films. Journal of Applied Physics, 1995, 78, 1843-1849.	1.1	28
155	Determination of the Reaction Function in a Reaction-Diffusion Parabolic Problem. Journal of Heat Transfer, 1994, 116, 1041-1044.	1.2	20
156	SIMULTANEOUS ESTIMATION OF THERMAL DIFFUSIVITY AND RELAXATION TIME WITH A HYPERBOLIC HEAT CONDUCTION MODEL. , 1994, , .		2
157	Inverse problem of estimating interface conductance between periodically contacting surfaces. Journal of Thermophysics and Heat Transfer, 1993, 7, 319-325.	0.9	30
158	Sequential estimation of creatinine removal by a haemodialyser. Inverse Problems in Science and Engineering, 0, , 1-21.	1.2	0
159	Inverse Heat Transfer. , 0, , .		18
160	State estimation problem for the detection of valve closure in gas pipelines. Inverse Problems in Science and Engineering, 0, , 1-21.	1.2	1
161	Inverse Engineering. , 0, , 269-288.		0