Surya Vanka

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Shear-driven flow in an elliptical enclosure generated by an inner rotating circular cylinder. Physics of Fluids, 2022, 34, .	4.0	9
2	Dominant Modes in a Gas Cyclone Flow Field Using Proper Orthogonal Decomposition. Industrial & amp; Engineering Chemistry Research, 2022, 61, 2562-2579.	3.7	8
3	Special Issue on Fluids Engineering Research in Honor of the Life and Achievements of Professor Kirti Ghia—A Pioneer in Computational Fluid Dynamics. Journal of Fluids Engineering, Transactions of the ASME, 2022, 144, .	1.5	0
4	A high-order accurate meshless method for solution of incompressible fluid flow problems. Journal of Computational Physics, 2021, 445, 110623.	3.8	24
5	Optimization of solidification in die casting using numerical simulations and machine learning. Journal of Manufacturing Processes, 2020, 51, 130-141.	5.9	22
6	Uncertainty quantification in three dimensional natural convection using polynomial chaos expansion and deep neural networks. International Journal of Heat and Mass Transfer, 2019, 139, 613-631.	4.8	14
7	Finite volume simulation framework for die casting with uncertainty quantification. Applied Mathematical Modelling, 2019, 74, 132-150.	4.2	13
8	Rise of an argon bubble in liquid steel in the presence of a transverse magnetic field. Physics of Fluids, 2016, 28, .	4.0	33
9	Three-Dimensional Flow in a Driven Cavity Subjected to an External Magnetic Field. Journal of Fluids Engineering, Transactions of the ASME, 2015, 137, .	1.5	12
10	A study of pressure-driven displacement flow of two immiscible liquids using a multiphase lattice Boltzmann approach. Physics of Fluids, 2012, 24, .	4.0	55
11	A ghost fluid Lattice Boltzmann method for complex geometries. International Journal for Numerical Methods in Fluids, 2012, 69, 481-498.	1.6	56
12	Effect of Electromagnetic Ruler Braking (EMBr) on Transient Turbulent Flow in Continuous Slab Casting using Large Eddy Simulations. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2012, 43, 532-553.	2.1	92
13	Transient Turbulent Flow in a Liquid-Metal Model of Continuous Casting, Including Comparison of Six Different Methods. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2011, 42, 987-1007.	2.1	55
14	Direct numerical simulations of magnetic field effects on turbulent flow in a square duct. Physics of Fluids, 2010, 22, .	4.0	42
15	Transient Flow and Temperature Transport in Continuous Casting of Steel Slabs. Journal of Heat Transfer, 2005, 127, 807-807.	2.1	1
16	Study of Computational Issues in Simulation of Transient Flow in Continuous Casting. Steel Research International, 2005, 76, 33-43.	1.8	26
17	Transient fluid flow and superheat transport in continuous casting of steel slabs. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2005, 36, 801-823.	2.1	53
18	Study of transient flow and particle transport in continuous steel caster molds: Part I. Fluid flow. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2004, 35, 685-702.	2.1	98

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19	Study of transient flow and particle transport in continuous steel caster molds: Part II. Particle transport. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2004, 35, 703-714.	2.1	82
20	Computational and experimental study of turbulent flow in a 0.4-scale water model of a continuous steel caster. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2004, 35, 967-982.	2.1	73
21	Numerical study of scalar mixing in curved channels at low Reynolds numbers. AICHE Journal, 2004, 50, 2359-2368.	3.6	73
22	A NEW ALGORITHM FOR COMPUTING BINARY COLLISIONS IN DISPERSED TWO-PHASE FLOWS. Numerical Heat Transfer, Part B: Fundamentals, 2004, 45, 99-107.	0.9	3
23	Mathematical Modeling of Iron and Steel Making Processes. Comparison of Four Methods to Evaluate Fluid Velocities in a Continuous Slab Casting Mold ISIJ International, 2001, 41, 1262-1271.	1.4	106
24	FINITE-VOLUME MULTIGRID CALCULATION OF NATURAL-CONVECTION FLOWS ON UNSTRUCTURED GRIDS. Numerical Heat Transfer, Part B: Fundamentals, 1996, 30, 1-22.	0.9	16
25	Simulations of the unsteady separated flow past a normal flat plate. International Journal for Numerical Methods in Fluids, 1995, 21, 525-547.	1.6	69
26	Effects of intrinsic threeâ€dimensionality on the drag characteristics of a normal flat plate. Physics of Fluids, 1995, 7, 2516-2518.	4.0	60
27	Calculations of hot gas ingestion for a STOVL aircraft model. Journal of Aircraft, 1994, 31, 236-242.	2.4	0
28	A multigrid procedure for three-dimensional flows on non-orthogonal collocated grids. International Journal for Numerical Methods in Fluids, 1993, 17, 887-904.	1.6	40
29	Numerical study of a separated-reattaching flow. Theoretical and Computational Fluid Dynamics, 1993, 5, 291-308.	2.2	12
30	A PARALLEL ADI ALGORITHM FOR HIGH-ORDER FINITE-DIFFERENCE SOLUTION OF THE UNSTEADY HEAT CONDUCTION EQUATION, AND ITS IMPLEMENTATION ON THE CM-5. Numerical Heat Transfer, Part B: Fundamentals, 1993, 24, 143-159.	0.9	4
31	Hot gas environment around STOVL aircraft in ground proximity. II - Numerical study. Journal of Aircraft, 1992, 29, 20-27.	2.4	4
32	Multigrid calculations of a jet in crossflow. Journal of Propulsion and Power, 1992, 8, 425-431.	2.2	27
33	TECHNICAL NOTE: FAST NUMERICAL COMPUTATION OF VISCOUS FLOW IN A CUBE. Numerical Heat Transfer, Part B: Fundamentals, 1991, 20, 255-261.	0.9	4
34	MULTIGRID CALCULATION PROCEDURE FOR INTERNAL FLOWS IN COMPLEX GEOMETRIES. Numerical Heat Transfer, Part B: Fundamentals, 1991, 20, 61-80.	0.9	23
35	Large eddy simulation of turbulenceâ€driven secondary flow in a square duct. Physics of Fluids A, Fluid Dynamics, 1991, 3, 2734-2745.	1.6	169
36	Separated flow in a driven trapezoidal cavity. Physics of Fluids A, Fluid Dynamics, 1991, 3, 385-392.	1.6	20

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37	A numerical study of the effects of spanwise rotation on turbulent channel flow. Physics of Fluids A, Fluid Dynamics, 1991, 3, 642-656.	1.6	56
38	A numerical study of flow separation and reattachment on a blunt plate. Physics of Fluids A, Fluid Dynamics, 1991, 3, 1749-1759.	1.6	44
39	A threeâ€dimensional numerical study of flow separation and reattachment on a blunt plate. Physics of Fluids A, Fluid Dynamics, 1991, 3, 2887-2909.	1.6	48
40	Efficient computational tool for ramjet combustor research. Journal of Propulsion and Power, 1989, 5, 431-437.	2.2	5
41	Second-order upwind differencing in a recirculating flow. AIAA Journal, 1987, 25, 1435-1441.	2.6	43
42	Vectorized multigrid fluid flow calculations on a CRAY X-MP/48. International Journal for Numerical Methods in Fluids, 1987, 7, 635-648.	1.6	7
43	Performance of a multigrid calculation procedure in three-dimensional sudden expansion flows. International Journal for Numerical Methods in Fluids, 1986, 6, 459-477.	1.6	13
44	Calculation of axisymmetric turbulent, confined diffusion flames. AIAA Journal, 1986, 24, 462-469.	2.6	14
45	Mixing, chemical reaction, and flowfield development in ducted rockets. Journal of Propulsion and Power, 1986, 2, 331-338.	2.2	24
46	Investigation of a dual inlet side dump combustor using liquid fuel injection. Journal of Propulsion and Power, 1985, 1, 83-88.	2.2	43
47	A SEMI-IMPLICIT CALCULATION PROCEDURE FOR FLOWS DESCRIBED IN BOUNDARY-FITTED COORDINATE	0.5	38