

Large eddy simulation of a forwardâ€“backward facing identification

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Citation Report

#	ARTICLE	IF	CITATIONS
1	The negatively buoyant wall-jet: LES results. International Journal of Heat and Fluid Flow, 2004, 25, 795-808.	1.1	30
2	Synthetic turbulent inflow conditions based on a vortex method for large-eddy simulation. Progress in Computational Fluid Dynamics, 2006, 6, 50.	0.1	32
3	A Noble Gas Wiping System to Prevent the Edge Overcoating in Continuous Hot-dip Galvanizing. ISIJ International, 2006, 46, 573-578.	0.6	12
4	Turbulence forced convection heat transfer over double forward facing step flow. International Communications in Heat and Mass Transfer, 2006, 33, 508-517.	2.9	60
5	Coupling of LES with LEE for Forward Facing Step Noise Prediction. , 2007, , .		1
6	Experimental study of the spill and vaporization of a volatile liquid. Journal of Hazardous Materials, 2007, 140, 117-128.	6.5	7
7	On the Use of Embedded Meshes in the LES of External Flows. Flow, Turbulence and Combustion, 2008, 80, 393-403.	1.4	17
8	Aeroacoustic study of a forward facing step using linearized Euler equations. Physica D: Nonlinear Phenomena, 2008, 237, 2184-2189.	1.3	13
9	Statistical properties of wall pressure fluctuations over a forward-facing step. Physics of Fluids, 2008, 20, .	1.6	86
10	Near-Surface Wind-Induced Mixing in a Mine Lake. Journal of Hydraulic Engineering, 2008, 134, 1464-1472.	0.7	16
11	Sound generation by turbulent boundary-layer flow over small steps. Journal of Fluid Mechanics, 2010, 654, 161-193.	1.4	52
12	Large Eddy Simulation of Turbulent Axial Flow Along an Array of Rods. Journal of Fluids Engineering, Transactions of the ASME, 2010, 132, .	0.8	5
13	Aeroacoustics of Turbulent Boundary-Layer Flow over Small Steps. , 2010, , .		5
14	Turbulent Boundary Layers Over Coarse Scale Resolution Approximations of a Rough Forward-facing Step. , 2011, , .		0
15	Turbulent boundary layers over smooth and rough forward-facing steps. Physics of Fluids, 2011, 23, .	1.6	53
16	Turbulence Models and Large Eddy Simulations Applied to Ascending Mixed Convection Flows. Flow, Turbulence and Combustion, 2012, 89, 407-434.	1.4	33
17	Structures and mechanism of heat transfer phenomena in turbulent boundary layer with separation and reattachment via DNS. International Journal of Heat and Fluid Flow, 2012, 37, 81-92.	1.1	15
18	A consistent dual-mesh framework for hybrid LES/RANS modeling. Journal of Computational Physics, 2012, 231, 1848-1865.	1.9	50

#	ARTICLE	IF	CITATIONS
19	The Response of a Surface Discontinuity to an Incoming Vortex. , 2013, , .		0
20	On the impacts of coarse-scale models of realistic roughness on a forward-facing step turbulent flow. International Journal of Heat and Fluid Flow, 2013, 40, 15-31.	1.1	16
21	Turbulent separation upstream of a forward-facing step. Journal of Fluid Mechanics, 2013, 724, 284-304.	1.4	69
22	A fluid-mechanics based classification scheme for surface transient storage in riverine environments: quantitatively separating surface from hyporheic transient storage. Hydrology and Earth System Sciences, 2013, 17, 2747-2779.	1.9	39
23	Understanding of the flow behaviour on a Helmholtz resonator excited by grazing flow. International Journal of Computational Fluid Dynamics, 2014, 28, 219-231.	0.5	16
24	Dynamic Evaluation of Mesh Resolution and Its Application in Hybrid LES/RANS Methods. Flow, Turbulence and Combustion, 2014, 93, 141-170.	1.4	9
25	Investigation of Heat Transfer Enhancement in a Forward-Facing Contracting Channel Using FMWCNT Nanofluids. Numerical Heat Transfer; Part A: Applications, 2014, 66, 1321-1340.	1.2	220
26	Turbulent flow characteristics and drag over 2-D forward-facing dune shaped structures with two different stoss-side slopes. Environmental Fluid Mechanics, 2014, 14, 617-645.	0.7	15
27	Fluid flow of a wall jet impinging a hot obstacle. Journal of Thermal Science and Technology, 2015, 10, JTST0003-JTST0003.	0.6	0
28	POD approach to determine in real-time the temperature distribution in a cavity. Building and Environment, 2015, 93, 34-49.	3.0	24
29	Analysis of the turbulent boundary layer in the vicinity of a self-excited cylindrical Helmholtz resonator. Journal of Turbulence, 2015, 16, 705-728.	0.5	9
30	Flow-Induced Noise of a Forward-Backward Facing Step. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2016, , 767-776.	0.2	1
31	Numerical Study of Heat Transfer and Separated Flow over Rectangular Obstacle in Jet. Heat Transfer - Asian Research, 2016, 45, 515-535.	2.8	0
32	Laminar CuO-water nano-fluid flow and heat transfer in a backward-facing step with and without obstacle. Applied Nanoscience (Switzerland), 2016, 6, 371-378.	1.6	22
33	Fast POD method to evaluate infiltration heat recovery in building walls. Building Simulation, 2017, 10, 111-121.	3.0	8
34	A review of Backward-Facing Step (BFS) flow mechanisms, heat transfer and control. Thermal Science and Engineering Progress, 2018, 6, 194-216.	1.3	136
35	Design of the Solenoid Valve of an Antilock Braking System With Reduced Flow Noise. Journal of Fluids Engineering, Transactions of the ASME, 2018, 140, .	0.8	3
36	Comparison of turbulent forced convection between wall jet and channel flow over a heated obstacle. Progress in Computational Fluid Dynamics, 2018, 18, 127.	0.1	1

#	ARTICLE	IF	CITATIONS
37	Dynamics of the recirculating areas of a forward-facing step. <i>Experiments in Fluids</i> , 2018, 59, 1.	1.1	33
38	Experimental study of fluid flow behaviour and pressure drop in channels partially filled with metal foams. <i>Experimental Thermal and Fluid Science</i> , 2018, 99, 117-128.	1.5	24
39	Change in Separation Flow Regimes over Obstacles in Subsonic Gas Flow as a Manifestation of Viscous Forces: Numerical Results. <i>Computational Mathematics and Mathematical Physics</i> , 2019, 59, 1732-1741.	0.2	0
40	Simulation of Forced Convection in a Channel Containing Three Obstacles over Backward and Forward Facing Steps by LBM. <i>International Journal of Applied and Computational Mathematics</i> , 2019, 5, 1.	0.9	5
41	Numerical Analysis of Transient Compressible Flow over Backward-facing Step. , 2019, , .		0
42	The reduction of noise induced by flow over an open cavity. <i>International Journal of Heat and Fluid Flow</i> , 2020, 82, 108560.	1.1	6
43	Spatio-temporal dynamics of flow separation induced by a forward-facing step submerged in a thick turbulent boundary layer. <i>Journal of Fluid Mechanics</i> , 2020, 892, .	1.4	26
44	Large Eddy Simulation of Flow and Heat Transfer over Forward-Facing Steps with Upstream Injection. , 2021, , .		1
45	Three-dimensional structural characteristics of flow separation induced by a forward-facing step in a turbulent channel flow. <i>Journal of Fluid Mechanics</i> , 2021, 919, .	1.4	2
46	Industrial LES with Unstructured Finite Volumes. , 2006, , 27-38.		4
47	Boundary layer noise Part 1: generation mechanisms. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2013, , 345-378.	0.3	3
48	Turbulent Natural Convection in Horizontal Coaxial Cylindrical Enclosures: LES and RANS Models. , 2006, , .		4
50	Numerical Solution of Three-Dimensional Flow over Angled Backward-Facing Step with Raised Upper Wall. <i>Journal of Applied Fluid Mechanics</i> , 2014, 7, .	0.4	1
51	Characteristics of Recirculation Regions on Ribs of Varying Length. <i>Springer Proceedings in Physics</i> , 2016, , 213-221.	0.1	0
52	Analyzing the Flow in Annular Gap With a Restrictor Mounted on Outer Cylinder. , 2018, , .		0
53	A Priori Analysis of Acoustic Source Terms from Large-Eddy Simulation in Turbulent Pipe Flow. , 0, , .		0
54	Experimental investigation of tubing collarâ€™s influence on hydrodynamic behavior of annular duct flow. <i>Petroleum Science</i> , 2022, , .	2.4	0