

List of Publications
of
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Journal Publications

1. M. Abdul Azim and A.K.M. Sadrul Islam, "Plane Mixing Layers from Parallel and Non-Parallel Merging of Two Streams", to appear in Experiments in Fluids.
2. S. Mahmud and A.K.M. Sadrul Islam, "Separation Characteristics of Fluid Flow in a Pipe with Wavy Surface", Int. Journal of Applied Mechanics & Engineering, Vol 7, No. 4, 2002.
3. S. Mahmud, A.K.M. Sadrul Islam and M.A.H. Mamun "Separation Characteristics of Fluid Flow Inside Two Parallel Plates with Wavy Surface", International Journal of Engineering Science, Elsevier, vol 40, pp 1495-1509, September, 2002.
4. C. M. Feroz, S.A.M.M. Alam, M.A.R. Akhanda and A.K.M. S. Islam, "Free Convection Across Air Gap between Corrugated and Flat Plates", Archives of Thermodynamics, Vol. 23, No. 1-2, pp 39-53, 2002.
5. Shakil Ahmed, M. Ali and A.K.M. Sadrul Islam, "The Effect of Injection Angle on Mixing and Flame Holding in Supersonic Combustor", Journal of Thermal Science, China, Vol. 11, No. 1, pp 80 – 91, February, 2002.
6. A.K.M. Sadrul Islam and R.G.M. Hasan, "A Numerical Study of the Turbulent Fluctuating Flow around a Square Cylinder for Different Inlet Shear", Wind and Structures: an International Journal, Vol 5, No. 1, pp 15-24, January, 2002.
7. S. Mahmud, P. K. Das, N. Hyder and A.K.M. Sadrul Islam, "Free Convection in an Enclosure with Differentially Heated Vertical Wavy Wall", International Journal of Thermal Sciences, Elsevier, Vol. 41, No. 5, pp 440-446, 2002.
8. M.A. Alim and A.K.M. Sadrul Islam, "Separation Points of Laminar Boundary Layer Flow Along a Vertical Porous Plate With Exponentially Decreasing Velocity Distribution", Int. Journal of Nonlinear Modelling in Science and Engineering, Cambridge Int. Science Publishing, U.K., Vol.1, pp. 42-50, 2001.
9. S. Mahmud, A.K.M. Sadrul Islam and P.K. Das, " Numerical Prediction of Fluid Flow and Heat Transfer in a Wavy Pipe", Journal of Thermal Science, China, Vol. 10, No. 2, pp. 133-138, April, 2001.
10. N.H.A Mamun, M.Q. Islam and A.K.M. S. Islam, "Bicycle Driven Low Cost Patient Carrier for Rural Areas of Bangladesh", J. Asiatic Society, Bangladesh, Sci., Vol. 27, No. 1, pp 9-16, June 2001.
11. J.A. Naser, A. Chowdhury and A.K.M. S. Islam, "Prediction of Natural Convection in a Square Enclosure", Journal of Energy, Heat and Mass Transfer, India, Vol. 22, pp 159-163, 2000.
12. M.Q. Islam and A.K.M. Sadrul Islam, "Assessment of Wind Power in Bangladesh", JURUTERA, The Monthly Bulletin of the Institution of Engineers, Malaysia, Jan ,2000, pp 45-48.
13. M.A.A. Mamun and A.K.M. S. Islam, "Short Term Forecasting of the Bay of Bengal Cyclone Tracks using Polynomial Regression Method", Mechanical Engineering Research Bulletin, BIT, Chittagong, Vol 1, pp20-25, 2000.

14. A.K.M. S. Islam and M. Hossain, "Prediction of Local Species Concentration of a Turbulent Diffusion Combustion in an Axisymmetric Furnace", Journal of Energy, Heat & Mass Transfer, India, Vol. 18, pp 141-146, 1996.
15. A.K.M. S. Islam, M. Q. Islam, M. M. Razzaque and R. Ashraf, "Static Torque and Drag Characteristics of an S-Shaped Savonius Rotor and Prediction of Dynamic Characteristics", Journal of Wind Engineering, UK, Vol. 19, No. 6, pp 363-370, 1995.
16. A.K.M. S. Islam, "Effect of Hood on the Selective Withdrawal in a Cross Flow", JSME Int. Journal, Japan, Series B, Vol. 38, 1995, pp. 600-605.
17. A.K.M. S. Islam, A. Chowdhury, J.A. Naser and M.Q. Islam, "Numerical Study of Forced Convection in a Packed Channel with Asymmetric Heating", Chemical Engineering Communication, USA, Vol. 138, 1995, pp 75-87.
18. M.Q. Islam, S.M.N. Islam, A.K.M.S. Islam and M. M. Razzaque, "Application of Wind Energy for Irrigation in Bangladesh", Journal of AMA, Japan, vol.26, No. 2, 1995, pp 24-28.
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20. B.A.Gama, M.A.T. Ali and A.K.M. S. Islam, "Study of Axisymmetric Turbulent Free Mixing Layer", Indian Journal of Engineering & Material Sciences, vol. 1, Oct., 1994, pp 246-252.
21. M.Q. Islam and A.K.M. S. Islam, "The Aerodynamic Performance of a Horizontal Axis Wind Turbine Calculated by Strip Theory and Cascade Theory", JSME Int. Journal, Japan, Series B, vol 37, No. 4, Nov., 1994, pp 871-877.
22. A.K.M. S. Islam, M.Maniruzzaman and J.A. Naser "Prediction of Secondary Flow Separation in Laminar Backward Facing Step", Journal of AMSE, Measurement & Control, B, Vol. 53, No.4, pp. 41-48, 1994, France.
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24. A.K.M. S. Islam, M.Q. Islam, A.C. Mandal and M.M. Razzaque "Aerodynamic Characteristics of a Savonius Rotor", RERIC International Energy Journal, Thailand, Vol. 15, No. 2, Dec., 1993.
25. A. Rahim, A.K.M. S. Islam and G.M. Khalil, "Weather and Passenger Crowding Criteria on Stability of Inland Passenger Vessels", The Journal of Institution of Engineers, India, Marine Engg. Divn., Vol. 74, pp 21-27, November, 1993.
26. M.C. Saha, A.K.M. S. Islam and J.A.Naser, "Investigation of Flow Around Square Cylinders in Tandem Arrangement Employing K- ϵ and a Two-layer Model", The Journal of Institution of Engineers, India, Mechanical Engg. Divn., Vol. 74, pp77 - 81, November, 1993.
27. M.Q. Islam, A.K.M. S. Islam and A.C. Mandal "The Prospect of Wind Energy Application for Irrigation in Bangladesh", Journal of Mech. Engg. Res. Dev., Vol 16, pp 27-40, 1993.
28. A.M.A.Huq, M.A.T. Ali, D.K.Das, M.Q.Islam and A.K.M. S. Islam, "Water Lifting Devices for Irrigation in Bangladesh", Journal of Agricultural Mechanization of Asia, Vol. 23, No. 2, pp 29 - 37, 1992, Tokyo, Japan.
29. A.Rahim and A.K.M. S. Islam, "Intact Stability Assessment of Inland Passenger Vessel by Strathclyde Method", Journal of Institution of Engineers, Bangladesh, Vol. 20, No. 3, July 1992.
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31. A.K.M. S. Islam and S. Ahmed, "Prediction of Fluid Flow and Heat Transfer Characteristics Behind a Single Backward Facing Step", Journal of Engineering, Iran, Vol. 5, pp 61-67, May, 1992.
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34. A.K.M. S. Islam and M.M. Hossain, "An Investigation of Flow Around Square Cylinders in Tandem", Mechanical Engineering Research Bulletin, Vol. 14, pp. 47-52, 1991, Dhaka.
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37. A.K.M. S. Islam and J.J. McGuirk, "Withdrawal Behaviour Through a Single Round Hole in a Cross Flow", Mechanical Engineering Research Bulletin, Vol. 11, pp 60-71, 1988, Dhaka.
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Conference Publications:

39. M. Zakir Hossain, D.G. Infield and A.K.M. Sadrul Islam, "Stand Alone PV-Wind System Modelling for Rural Application in Bangladesh", Proc. World Renewable Energy Congress VII, 29 June – 5 July 2002, Cologne, Germany.
40. A.K.M. Sadrul Islam, N.H.A. Mamun, M.Q. Islam, and D.G. Infield, "Development of a Model Water Current Turbine and its Application in Bangladesh", Proc. World Renewable Energy Congress VII, 29 June – 5 July 2002, Cologne, Germany.
41. M.A. Azim and A.K.M. Sadrul Islam, "Effect of Merging Angle on Turbulent Mixing Layers", Proc. of 9th Asian Congress of Fluid Mechanics (in CD and book of abstracts page # 86), 27-31 May 2002, Isfahan, Iran.
42. M. Ali, S. Ahmed and A.K.M. Sadrul Islam, "The Effects of Injector Position on Mixing and Flame Holding in Supersonic Combustor", Proc. of 9th Asian Congress of Fluid Mechanics (in CD and book of abstracts page # 129), 27-31 May 2002, Isfahan, Iran.
43. A.K.M. Sadrul Islam and Shohel Mahmud, "Separation Characteristics of Laminar Flow in a Pipe with Symmetric Sinusoidal Wall", Proc. of 9th Asian Congress of Fluid Mechanics (in CD and book of abstracts page # 140), 27-31 May 2002, Isfahan, Iran.
44. A.K.M. Sadrul Islam, N.H. Al-Mamun, M.Q. Islam and D.G. Infield, "Harnessing the Energy from River Current for Small Scale Electricity Generation in Bangladesh", Proc. International Conference on Energy Research and Development, April 8-10, 2002, Kuwait, pp. 685-690.
45. Chowdhury M. Feroz, A.M.M. S. Alam, M.A.R. Akhanda and A.K.M. S. Islam, "Natural Convection Heat Transfer Across Inclined Air Layers", Proc. International Conference on Energy Research and Development, April 8-10, 2002, Kuwait, pp. 911- 920.

46. M. Zakir Hossain, D.G. Infield and A.K.M. Sadrul Islam, "Modelling of Hybrid Stand Alone System for Rural Application in Bangladesh", Renewable Energy for Rural Development, A.K.M. Sadrul Islam & D.G. Infield (Eds), 2002, pp.25-31.
47. M.A.K. Chowdhury, M. R. Rahman, M. Zakir Hossain and A.K.M. Sadrul Islam, "Prediction of Cell Temperature of PV Modules Using The Simplified Thermal Model", Renewable Energy for Rural Development, A.K.M. Sadrul Islam & D.G. Infield (Eds), 2002, pp.47-51.
48. S.N. Alam, Q.A.A. Mamun, M. Ali and A.K.M. Sadrul Islam, "Biogas Production from Indigenous Raw Materials and Reduction of Impurities", Renewable Energy for Rural Development, A.K.M. Sadrul Islam & D.G. Infield (Eds), 2002, pp.195-203.
49. N.H.A. Mamun, M.Q. Islam, A.K.M. Sadrul Islam and D.G. Infield, "Development of River Current Turbine Model and its Application for Power Generation in Bangladesh", Renewable Energy for Rural Development, A.K.M. Sadrul Islam & D.G. Infield (Eds), 2002, pp.211-218.
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51. M.A. Azim and A.K.M. Sadrul Islam, "Self-Similarity in Turbulent Mixing Layers", Proc. BSME-ASME International Conference on Thermal Engineering, 31 Dec 2001-2 Jan 2002, Dhaka, pp. 378-383.
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53. M. A. Hossain, M. Zakir Hossain and A.K.M. Sadrul Islam, "Wind Resource Assessment of Bangladesh: Bay Belt Meteorological Stations of Barisal Division", Proc. BSME-ASME International Conference on Thermal Engineering, 31 Dec 2001-2 Jan 2002, Dhaka, pp. 571-576.
54. Sultan Ahmed, M. Quamrul Islam and A.K.M. Sadrul Islam, "Design Characteristics and Performance of a Horizontal Axis Wind Turbine Model for Water Pumping in Bangladesh", Proc. BSME-ASME International Conference on Thermal Engineering, 31 Dec 2001-2 Jan 2002, Dhaka, pp. 613-622.
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59. S. Mahmud, A.K.M. Sadrul Islam & P. K. Das, "Structure of Separated Flow in a Pipe with Wavy Surface", Proc. of International Symposium on Experimental and Computational Aerothermodynamics of Internal Flows (5th ISAIIF), pp. 855-862, September 4-7, 2001, Gdansk, Poland.

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67. A.K.M. Sadrul Islam, "On the Prediction of Vortex Shedding Flow Past a Square Cylinder in a Uniform Shear Flow", Proc. 8th Asian Congress of Fluid Mechanics, December 6-10, 1999, Shenzhen, China, pp 242-246.
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70. M. Q. Islam , S. Bachhar and A.K.M. Sadrul Islam, " Drawdown from a Two Layer Fluid Body Through a Capped Round Hole", Proc. 8th Asian Congress of Fluid Mechanics, December 6-10, 1999, Shenzhen, China, pp 720-723.
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78. A.K.M. S. Islam and M.S. Mayeed, "Numerical Study of Mixed Convective Flow Behind an Inclined Backward Facing Step", Proc. of the Seminar on Fluid Mechanics Research, 27-28 Dec., 1995, Dhaka.
79. A.K.M. S. Islam and M.M. Rahman, "Prediction of Laminar Separation over an Annular Backstep", Proc. of the Seminar on Fluid Mechanics Research, 27-28 Dec., 1995, Dhaka.
80. A.K.M. S. Islam, M.M. Razzaque and M.Q. Islam, "An Investigation of Selective Withdrawal Through a Round Hole From a Two Layered Fluid System", Proc. of 6th Asian Congress of Fluid Mechanics, May 22-26, 1995, Nanyang Tech. University, Singapore, pp. 1094-1097.
81. M.Q.Islam, A.K.M. S. Islam, M. Hossain and J.A.Naser, "Effect of Inlet Condition on the Structure of Laminar Flow in an Asymmetric Channel Expansion", Proc. of 6th Asian Congress of Fluid Mechanics, May 22-26, 1995, Nanyang Tech. University, Singapore, pp. 935-938.
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83. M.A. Zaman, M.R. Khan, A.K.M. S. Islam and M.F. Khan, "A Novel Dehumidification Technique using Electric Field", 45th Annual International Appliance Technical Conference, May 9-11, 1994 , University of Wisconsin- Madison, USA, pp 131-141.
84. A.K.M. S. Islam, A.Chowdhury and J.A. Naser, "Numerical Study of Heat Transfer and Fluid Flow Characteristics in a Porous Medium Behind a Backward Facing Step", Proc. of 1st ISHMT- ASME Heat & Mass Transfer Conference, pp 585 - 589, Jan. 5-7, 1994, Bombay, India.
85. J.J. McGuiirk and A.K.M. S. Islam, "Numerical Modelling of the Influence of Hood on Axisymmetric Withdrawal from a Density Stratified Environment", Proc. of Int. Conf. on Stratified Flows, Caltech, California, USA, 1987.
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Book

1. A.K.M. Sadrul Islam and D.G. Infield (Editors), " Photovoltaic Technology for Bangladesh", ISBN # 984-31-1085-4, published by BUET, Dhaka and CREST, Loughborough University, UK, 2001, p 265.
2. M.Q. Islam and A.K.M. S. Islam, "Fluid Mechanics Laboratory Practice", ISBN # 984-518-000-0, published by D.A.E.R.S., B.U.E.T., Dhaka, Bangladesh, 1993, p 174.

Research Report

A.K.M.S. Islam, "Prediction of Vortex Shedding Behind Bluff Bodies", Report # TT9701, Aero. Auto. Engg. and Transport Studies Dept., Loughborough University, UK, 1997.