

**List of Publications**  
**of**  
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**Journal Publications**

1. P.K.Das, S. Mahmud, S.H. Tasnim and A.K.M. Sadrul Islam, "Analysis of Free Convection Heat Transfer and Heat Transfer Irreversibility Inside an In-phase Wavy Enclosure", submitted to the International Journal of Numerical Methods of Heat and Fluid Flow, 2003.
2. S. Mahmud and A.K.M. Sadrul Islam, "Natural Convection and Entropy Generation in an Inclined Wavy Enclosure", International Journal of Thermal Sciences, in press 2003.
3. S.Mahmud, A.K.M. Sarul Islam and C.M. Feroz "Flow and Heat Transfer Characteristics Inside a Wavy Tube", Heat and Mass Transfer, Springer-Verlag, Vol. 39, pp 387-393, 2003.
4. M. Abdul Azim and A.K.M. Sadrul Islam, "Turbulent Mixing Layer from Two Non-parallel Streams", The Aeronautical Journal, in press 2003.
5. M. Abdul Azim and A.K.M. Sadrul Islam, "Plane Mixing Layers from Parallel and Non-Parallel Merging of Two Streams", Experiments in Fluids, Springer-Verlag, Vol. 34, 2003, pp 220-226.
6. S. Mahmud, M.A.H. Mamun 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, pp 1255-1270.
7. 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.
8. 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.
9. 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.
10. 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.
11. 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.
12. 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.
13. 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.

14. 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.
15. 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.
16. 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.
17. 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.
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19. 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.
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22. 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.
23. A.K.M.S. Islam and M.Q. Islam, "The Potential for Wind Energy in Bangladesh", Journal of Energy Heat and Mass Transfer, India, vol. 16, No. 3, Sept. 1994, pp 229-236.
24. 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.
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29. 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.

30. M.C. Saha, A.K.M. S. Islam and J.A.Naser, "Investigation of Flow Around Square Cylinders in Tandem Arrangement Employing k- $\epsilon$  and a Two-layer Model", The Journal of Institution of Engineers, India, Mechanical Engg. Divn., Vol. 74, pp77 - 81, November, 1993.
31. 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.
32. 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.
33. 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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35. 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.
36. A. Rahim, A.K.M. S. Islam and G.M. Khalil, "Free Surface Effects on the Stability of Passenger Vessels: Some Computation Results", Mechanical Engineering Research Bulletin, vol. 15, pp 9-16, 1992, Dhaka.
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40. S.M.N. Islam and A.K.M. S. Islam, "Momentum and Kinetic Energy Correction Factors and Development of Turbulent Flow Through a Pipe", Mechanical Engineering Research Bulletin, Vol. 12, pp 37-54, 1989, Dhaka.
41. 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:**

43. M. Shahidul Islam and A.K.M. Sadrul Islam, "Industrial Water Treatment Technologies: an Overview", Bangladesh Environment 2002, Editors: M Feroz Ahmed, S A Tanveer and ABM Badruzzaman, Bangladesh Paribesh Andalan, December 2002, pp. 596-608.
44. 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.

45. 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.
46. M.A.Azim and A.K.M. Sadrul Islam, "Effect of Merging Angle on Turbulent Mixing Layers", Proc. of 9<sup>th</sup> Asian Congress of Fluid Mechanics (in CD and book of abstracts page # 86), 27-31 May 2002, Isfahan, Iran.
47. 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 9<sup>th</sup> Asian Congress of Fluid Mechanics (in CD and book of abstracts page # 129), 27-31 May 2002, Isfahan, Iran.
48. A.K.M. Sadrul Islam and Shohel Mahmud, "Separation Characteristics of Laminar Flow in a Pipe with Symmetric Sinusoidal Wall", Proc. of 9<sup>th</sup> Asian Congress of Fluid Mechanics (in CD and book of abstracts page # 140), 27-31 May 2002, Isfahan, Iran.
49. 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.
50. 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.
51. 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.
52. 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.
53. 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.
54. 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.
55. A.K.M. Sadrul Islam, M. Q. Islam, K.M. Rahman and M. Rezwan Khan, "Developing a Pedaling Generator for Household Electricity Supply in Rural Bangladesh; A Feasibility Study", Renewable Energy for Rural Development, A.K.M. Sadrul Islam & D.G. Infield (Eds), 2002, pp.281-284.
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58. 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.
59. 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 -2Jan 2002, Dhaka, pp. 613-622.

60. Q.A. Al-Mamun, S.N. Alam, M. Ali and A.K.M. Sadrul Islam, "An Experimental Investigation of Biogas Production and Reduction of CO<sub>2</sub>", Proceedings of National Seminar on Utilization of Renewable Energy in Rural Areas of Bangladesh, 9-10 November, 2001, Khulna, pp 33-42.
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63. A.K.M. Sadrul Islam, N.H. Al-Mamun, M.Q. Islam and D.G. Infield, "Energy from River Current for Small Scale Electricity Generation in Bangladesh", Proceedings of the Conference C76 of the Solar Energy Society: 'Renewable Energy in Maritime Island Climates', 10-11 Sept 2001, Odyssey Centre, Belfast, UK, Editors: P. Eames, B. Norton & P. Griffiths, Published by The Solar Energy Society, UK, pp. 207-213.
64. 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 (5<sup>th</sup> ISAIIF), pp. 855-862, September 4-7, 2001, Gdansk, Poland.
65. N.H. Al Mamun, M.Q. Islam, A.K.M. Sadrul Islam and D.G. Infield, "Potential of River Current Utilization for Small Scale Electricity Generation in Bangladesh", Proc. of International Conference on Electrical & Computer Engineering, Jan 5-6, 2001, pp 189-192.
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72. A.K.M. Sadrul Islam, "On the Prediction of Vortex Shedding Flow Past a Square Cylinder in a Uniform Shear Flow", Proc. 8<sup>th</sup> Asian Congress of Fluid Mechanics, December 6-10, 1999, Shenzhen, China, pp 242-246.
73. A.K.M. Sadrul Islam and M.Q. Islam, "Aerodynamic Characteristics of Stationary Savonius and S Shaped Rotors", Proc. 8<sup>th</sup> Asian Congress of Fluid Mechanics, December 6-10, 1999, Shenzhen, China, pp 377-381.

74. M. Ali and A.K.M. Sadrul Islam, "Effect of Mainflow Inlet Width on Penetration and Mixing of Hydrogen in Scramjet Combustor", Proc. 8<sup>th</sup> Asian Congress of Fluid Mechanics, December 6-10, 1999, Shenzhen, China, pp 647-650.
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76. M.Q.Islam and A.K.M. Sadrul Islam, "Assessment of Wind Power in Bangladesh", Proc. of 3<sup>rd</sup> Jordanian Mechanical & Industrial Engineering Conference, Amman, Jordan, 9-12 May 1999, pp 215-222.
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78. M.Q. Islam, A.K.M. Sadrul Islam and M.M. Razzaque, "An Investigation of Selective Withdrawal From a Two Layered Fluid Body Through a Round Hole", Proc. of the 7<sup>th</sup> Asian Congress of Fluid Mechanics, December 8-12, 1997, Chennai, India, pp 821-824.
79. M.Q. Islam, A.K.M. S. Islam and M.A. Nur, "Aerodynamic Characteristics of a Stationary S-shaped Savonius Rotor", Proc. Int. Symp. On Advances in Alternative and Renewable Energy, Johor Bahru, Malaysia, 22-24 July, 1997, pp 372-380.
80. M.A.Nur, M.Q.Islam and A.K.M. S. Islam, "Feasibility of Wind Energy in Bangladesh", Proc. Int. Symp. on Advances in Alternative and Renewable Energy, Johor Bahru, Malaysia, 22-24 July, 1997, pp 358-364.
81. A.K.M. S. Islam, M.M. Razzaque and M. Q.Islam, "Drawdown from a Two Layered Fluid Body Through a Round Hole", Hydrodynamics, Eds. Chawng, Lee & Leung, Balkema, Rotterdam, pp. 919-924, 1996.
82. M. Hossain and A.K.M. S. Islam, "Numerical Study of Laminar Heat Transfer Downstream of a Plane Asymmetric Sudden Expansion", Int. Conf. on Advances in Mech. Engg., 20-22 Dec., 1995, Bangalore, India, pp. 1697-1705.
83. 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.
84. 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.
85. 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.
86. 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.
87. A.K.M. S. Islam and M.M. Razzaque, "Prediction of Axisymmetric Drawdown from a Two Layered Fluid System", Proc. of International Conference on Mathematical Modelling, 29th May-1st June, 1995, Universiti Brunei Darussalam, Brunei, 358-361.
88. 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.
89. 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.

90. J.J. McGuirk 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.