

List of Publications
of
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Journal Paper

1. Saha, Sumon; Islam, Md. Toufiqul and **Hossain, M Zakir**, “Design of Low Cost Multi Channel Data Logger”, *ARPN Journal of Engineering and Applied Sciences*, Volume 1, Number 1, June 2006, pp 26-32.
2. **Hossain, M. Zakir** and Islam, A.K.M. Sadrul, “Fully Developed Flow Structures and Heat Transfer in Sine-Shaped Wavy Channels”, *International Communications in Heat and Mass Transfer* (Elsevier), Volume 31, Number 6, 2004, pp 887-896.

Conference Paper

1. Razzaque, M. Mahbubur and **Hossain, M. Zakir**, “Effects of Grooving in a Circular Step Thrust Bearing”, *World Tribology Congress III* (Paper no WTC2005-63431), Sep. 12-16, 2005, Washington, D.C. **USA**.
2. Razzaque, M. Mahbubur and **Hossain, M. Zakir**, “Grooving Effects in Circular Step Thrust Bearings”, Proceedings of the *4th International Mechanical Engineering Conference & 9th Annual Paper Meet*, Dec. 29-31, 2004, The Institute of Engineers, Bangladesh, pp. 330-335.
3. **Hossain, M. Zakir** and Islam, AKM Sadrul, “Numerical Investigation of Unsteady Flow and Heat Transfer in Wavy Channels”, Proceedings of the *Fifteenth Australasian Fluid Mechanics Conference*, Dec. 13-17, 2004, Sydney, **Australia**.
4. Razzaque, M. Mahbubur and **Hossain, M. Zakir**, “Inertia Effects in Grooved Thrust Bearings”, Extended abstracts of *First International Conference on Advance Tribology*, Dec. 1-3, 2004, NUS, **Singapore**.
5. Dey, Sanjoy; Alam, Md. Tarekul ; **Hossain, M. Zakir** and Hossain, M. Arif, “Wind Energy Potential in Southwest Division of Bangladesh”, Proceedings of the *First International Conference on Renewable Energy*, Oct. 6-8, 2004, New Delhi, **India**, pp PG 143-150.
6. **Hossain, M. Zakir**; Chawdhury; Sheik; Islam, AKM Sadrul and Islam, Mazhar, “A Simplified Thermal Model for the Prediction of Cell Temperature of a PV Module” Proceedings of 29th Annual Conference of SESCOI, August 21-25, 2004, Waterloo, **Canada**.
7. Ahamed, M Jalal; Islam, AKM Sadrul; **Hossain, M Zakir**; Hasan, RGM and Naser, Jamal “Numerical investigation of turbulent separating flow in an asymmetric diffuser” Proceedings of the *Fourth International Conference on Fluid Mechanics*, July 20-23 2004, Dalian, **China**.
8. **Hossain, M. Zakir**; Ahamed, M. Jalal and Islam, A.K.M. Sadrul, “Developing Flow Structure and Heat Transfer in Sine-shaped Wavy Channel”, Proceedings of the *Tenth Asian Congress of Fluid Mechanics*, May 17-21, 2004, Peradeniya, **Sri Lanka**.
9. Islam, A.K.M. Sadrul and **Hossain, M. Zakir**, “Unsteady Flow and Heat Transfer in Sinusoidal and Triangular Channels”, Proceedings of the *Tenth Asian Congress of Fluid Mechanics*, May 17-21, 2004, Peradeniya, **Sri Lanka**.
10. **Hossain, M. Zakir**; Infield, D.G. and Islam, A.K.M. Sadrul, “PV-Wind Hybrid System Modelling for the Application in Bangladesh”, Proceedings of *ISES Solar World Congress 2003*, June 14-19, 2003, Göteborg, **Sweden**.
11. **Hossain, M. Zakir** and Islam, A.K.M. Sadrul, “Fully Developed Flow Structure in Wavy Channels”, Book of abstract of *International Conference on Applied Mathematics and Mathematical Physics*, Jan 06-09, 2003 at Sylhet, Bangladesh.
12. Ezaz, T.; **Hossain, M.Z.**; Feroz, C.M. and Islam, A.K.M.S., “Numerical Investigation of Natural Convection Inside a Corrugated Enclosure”, Book of abstract of *International Conference on Applied Mathematics and Mathematical Physics*, Jan 06-09, 2003 at Sylhet, Bangladesh..
13. Islam, A.K.M. Sadrul; Islam, M. Quamrul; **Hossain, M. Zakir**; Khan, M.I. and Uddin, S.A., “Appropriate Low Head Micro Hydro Systems for Bangladesh”, *Proceedings of Second International Conference on Electrical and Computer Engineering*, Dec 26-28, 2002, Dhaka, pp 216-219.

14. Hossain, M. Arif; **Hossain, M. Zakir** and Islam, A.K.M. Sadrul, “Wind Resource Assessment of the North-West Division of Bangladesh”, *Proceedings of Second International Conference on Electrical and Computer Engineering*, Dec 26-28, 2002, Dhaka, pp 204-207.
15. **Hossain, M. Zakir**; Infield, D.G. and Islam, A.K.M. Sadrul, “Stand Alone PV-Wind System Modelling for Rural Application in Bangladesh”, *Proceedings of World Renewable Energy Congress VII* (CD version), Jun 29- Jul 07, 2002, Cologne, **Germany**.
16. **Hossain, M. Zakir**; Infield, D.G. and Islam, A.K.M. Sadrul, “Modelling of Hybrid Stand Alone System for Rural Application in Bangladesh”, *Proceedings of International Conference on Renewable Energy for Rural Development*, Jan 19-21, 2002, Dhaka, pp 25-31.
17. Chowdhury, M.A.K.; Rahman, M.R.; **Hossain, M. Zakir** and Islam, A.K.M. Sadrul, “Prediction of Cell Temperature of PV Modules Using The Simplified Thermal Model”, *Proceedings of International Conference on Renewable Energy for Rural Development*, Jan 19-21, 2002, Dhaka, pp 47-51.
18. Hossain, M. Arif; **Hossain, M. Zakir** and Islam, A.K.M. Sadrul, “Wind Resource Assessment of Bangladesh : Bay Belt Meteorological Stations of Barisal Division”, *Proceedings of BSME-ASME International Conference on Thermal Engineering*, Dec 31, 2001-Jan 02, 2002, Dhaka, pp 571-576.
19. Ali, M.; Das, D.K. and **Hossain, M. Zakir**, “Natural Convection Heat Transfer in Air Confined by Two Vertical Walls of Different Curvature”, *Proceedings of 4th International Conference on Mechanical Engineering*, Dec 26-28, 2001, Dhaka, vol-2, sec-II, pp 103-108.
20. **Hossain, M. Zakir**, Rahaman, M. Fardausur and Islam, A.K.M. Sadrul, “Barotropic Model for the Track Prediction of Tropical Cyclones in the Bay of Bengal”, *Proceedings of 3rd International Conference on Fluid Mechanics and Heat Transfer*, Dec 15-16, 1999, Dhaka, pp 153-161.

Editing

- *Member of the editorial board*, “Proceedings of 2nd BSME-ASME International Conference on Thermal Engineering (vol. I & II)”, M. Imtiaz Hossain (editor-in-chief), 2004, Dhaka. ISBN 984-32-1003-4.
- *Editor*, “Seminar on Industrial Water Treatment Technology, Student Project Presentation, and 4th AGM of BSME (Souvenir)”, 2003.
- *Editorial Co-ordinator*, “Proceedings of the International Conference on Renewable Energy for Rural Development”, A.K.M. Sadrul Islam and D.G. Infield (eds.), 2002. ISBN 984-32-0030-5.
- *Member of the editorial board*, “Proceedings of BSME-ASME International Conference on Thermal Engineering”, ASW Kurny (editor-in-chief), 2002, Dhaka. ISBN 984-32-0029-0.
- *Member of the editorial board*, “Proceedings of BSME-ASME International Conference on Thermal Engineering (Supplement)”, ASW Kurny (editor-in-chief), 2002, Dhaka. ISBN 984-32-0029-0.

Postgraduate Thesis

“Numerical Investigation of Unsteady Flow and Heat Transfer in Wavy Channels”, Department of Mechanical Engineering, BUET, Dhaka -1000, Bangladesh.

Undergraduate Thesis

“Track Prediction of Tropical Cyclones Formed in the Bay of Bengal”, Department of Mechanical Engineering, BUET, Dhaka -1000, Bangladesh.
