

## **-List of Publications-**

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### ***=Journals=***

#### ***Accepted***

1. **M. A. Wazed**, J. U. Ahamed, S. Ahmed, Y. Nukman, T.M.Y.S. Tuan Ya, and M. A. R. Sarkar, Enhancement and Prediction of Heat Transfer Rate in Turbulent Flow through Tube with Perforated Twisted Tape Inserts: A New Correlation, Journal of Heat Transfer – Transaction of the ASME.
2. **M. A. Wazed**, Shamsuddin Ahmed and Nukman Yusoff, Application of Taguchi Method to Analyze the Impacts of Commonality in Multistage production under Uncertainty, Advanced Science Letters.
3. **M. A. Wazed**, Shamsuddin Ahmed and Nukman Yusoff, Component and process commonalities in production system under various uncertain factors: realm of a malaysian industry, African Journal of Business Management [Ms. Number: AJBM-10-077 Wazed et al.]
4. **M. A. Wazed**, Shamsuddin Ahmed and Yusoff Nukman, Application of Taguchi Method to Analyze the Impacts of Common Processes in Multistage Production System under Uncertain Conditions, European Journal of Industrial Engineering (EJIE), 5(4): 2011
5. J. U. Ahamed, **M. A. Wazed**, M. A. R. Sarkar and Shamsuddin Ahmed, Enhancement of heat transfer in turbulent flow through tube with perforated twisted tape insert, Journal of Enhanced Heat Transfer (ISI indexed).
6. **M. A. Wazed** and Shamsuddin Ahmed, Extraction of fuel from municipality solid wastes using an updraft gasifier, International Journal of Renewable Energy Technology (IJRET)

#### ***Published***

1. **M. A. Wazed**, S. Ahmed and Y. Nukman, Application of Taguchi Method to Analyze the Impacts of Commonalities in Multistage Production under Bottleneck and Uncertainty, International Journal of Physical Sciences, 5(10): 1576-1591.
2. **M. A. Wazed**, N. Nafis, M. T. Islam and A. S. M. Sayem, Design and fabrication of Automatic Street light control system, Engineering e-Transaction, 5(1): 27-34, 2010.
3. **M. A. Wazed**, Shamsuddin Ahmed and Nukman Yusoff, Impacts of Common Processes in Multistage Production System under Machine Breakdown and Quality Uncertainties, African Journal of Business Management, 4(6): 979-986, 2010 (**ISI indexed**).
4. **M. A. Wazed**, Shamsuddin Ahmed and Nukman Yusoff, Impacts of quality and processing time uncertainties in multistage production system, International Journal of Physical Sciences, 5(6): 814-825, 2010 (**ISI indexed**)
5. **M. A. Wazed**, Shamsuddin Ahmed and Nukman Yusoff, A review of manufacturing resources planning models under different uncertainties: state-of-the-art and future directions, South African Journal of Industrial Engineering, 21(1):17-33, 2010 (**ISI indexed**).
6. **M. A. Wazed**, Y. Nukman, M. T. Islam, Design and fabrication of a cost effective solar air heater for Bangladesh, Applied Energy, 87(10): 3030-3036, 2010 (**ISI indexed and Elsevier imprinted Journal**).

7. M. I. Jahirul, H. H. Masjuki, R. Saidur, M. A. Kalam, M. H. Jayed and **M. A. Wazed**, Comparative Engine performance and Emission Analysis of CNG and Gasoline in a Retrofitted Car Engine" Applied Thermal Engineering, 30(14-15): 2219-2226, 2010 (**ISI indexed and Elsevier imprinted Journal**).
8. **M. A. Wazed**, Shamsuddin Ahmed and Nukman Yusoff, Commonality in Manufacturing Resources Planning – Issues and Models: A Review, European Journal of Industrial Engineering (EJIE), 4(2): 167-188, 2010 (**ISI indexed**).
9. **M. A. Wazed**, M. T. Islam and N. Uddin, Solar tunnel fish dryer for seasonal application in the perspective of Bangladesh, Engineering e-Transaction, 4(2): 73-80, 2009.
10. **M. A. Wazed**, Shamsuddin Ahmed and Nukman Yusoff, Managing Quality and Lead Time Uncertainties Using Component Commonality in a Production Environment, Engineering e-Transaction, 4(1): 21-34, 2009
11. **M. A. Wazed** and Shamsuddin Ahmed, Theory Driven Real Time Empirical Investigation on Joint Implementation of PDCA and 5S for Performance Improvement in Plastic Moulding Industry, Australian Journal of Basic and Applied Sciences, 3(4): 3825-3835, 2009
12. **M. A. Wazed** and Shamsuddin Ahmed, Integrated Approach in Developing On-line Statistical Process Control Software: Project Management Maturity Model (PMMM), Journal of Applied Sciences Research, 5(11): 1904-1914, 2009
13. **M. A. Wazed**, Shamsuddin Ahmed and Nukman Yusoff, Impacts of Common components on production system in an uncertain Environment, Scientific Research and Essays, 4(12): 1505-1517, 2009 (**ISI indexed**)
14. **M. A. Wazed**, Shamsuddin Ahmed and Nukman Yusoff, Commonality indices in design and production planning, Journal of Advanced Manufacturing Technology (AMT), 3(1): 1-20, 2009
15. **M. A. Wazed**, Shamsuddin Ahmed and Nukman Yusoff, Uncertainty Factors in Real Manufacturing Environment, Australian Journal of Basic and Applied Sciences Research, 3(2): 342-351, 2009.
16. **M. A. Wazed**, Shamsuddin Ahmed and Nukman Yusoff, Commonality and Its Measurement in Manufacturing Resources Planning, Journal of Applied Sciences, 9(1): 69-78, 2009.
17. **M. A. Wazed** and Shamsuddin Ahmed, A Feasibility Study of Micor-Hydroelectric Power Generation at Sapchari Waterfall, Khagrachari, Bangladesh, Journal of Applied Sciences, 9(2): 372-376, 2009.
18. **M. A. Wazed**, Shamsuddin Ahmed and Nukman Yusoff, Commonality Models in Manufacturing Resources Planning: State-of-the-Art and Future Directions, European Journal of Scientific Research, 23(3): 421-435, 2008.
19. **M. A. Wazed** and Shamsuddin Ahmed, Multifactor Productivity Measurements Model (MFPMM) as Effectual Performance Measures in Manufacturing, Australian Journal of Basic and Applied Sciences Research, 2(4): 987-996, 2008.
20. **M. A. Wazed** and Shamsuddin Ahmed, 'Micro Hydro Energy Resources in Bangladesh: A Review', Australian Journal of Basic and Applied Sciences Research, 2(4): 1209-1222, 2008.
21. **M. A. Wazed**, Islam M. T., Ahmed M. I., Islam AKMS, Cultivation of Solar Salt in Coastal Area of Bangladesh, Mechanical Engineering Research Journal, Department of Mechanical Engineering, Chittagong University of Engineering & Technology (CUET), Vol. 5 (2005), pp 21-26 (ISBN: 1990-5491)
22. **M. A. Wazed**, Islam M. T., Alam M. R., Roy R., Design and Fabrication of a Model Type Pico-Hydro Electric Power Generator, Mechanical Engineering Research Journal,

Department of Mechanical Engineering, Chittagong University of Engineering & Technology (CUET), Vol. 5 (2005), pp 32-36 (ISBN: 1990-5491)

23. **M. A. Wazed**, Islam M. T., Islam AKMS, Hoque M. I., Feasibility Study of Micro Hydro Power Generation, Case Study: Madunaghat Sluice Gate, Mechanical Engineering Research Journal, Department of Mechanical Engineering, Chittagong University of Engineering & Technology (CUET), Vol. 4 (2004), pp 43-46 (ISBN: 1990-5491)
24. **M. A. Wazed**, Islam M. T., Uddin R., Faruque O., Experimental Study of Model Type Solar Dryer, Solar Cooker and Solar Heater, Research Bulletin, Department of Mechanical Engineering, BIT Chittagong, Vol. (1). 2001 pp 11 – 14 (ISBN: 1990-5491)
25. Faruque O. and **M. A. Wazed**, Numerical Solutions of Temperature Distribution and Nusselt Number for Slot Jet Impingement on a Cylinder, JIEB (ME), December 1996 - June 1997, Vol. ME25-26, No. 1, Page 54 – 70

### **=Conference/Seminar/Workshop=**

#### ▪ **Published**

1. **M. A. Wazed**, Shamsuddin Ahmed, and Nukman Yusoff, Effects of component commonalities and various uncertain factors on production system, The 2010 International Conference on Mechanical, Industrial, and Manufacturing Technologies (MIMT 2010), Sanya, China, January 22-24, 2010 (ISBN: **9780791859544**, **ISI Proceedings**), pages 47-56
2. **M. A. Wazed**, Shamsuddin Ahmed and Nukman Yusoff, Impacts of Common Components in Multistage Production System under Uncertain Conditions, International Conference on Industrial Engineering and Operations Management (IEOM), Dhaka, Bangladesh, January 9 – 10, 2010 (CD-Proceedings, ISBN: 978-984-33-0988-4, ID: 161)
3. **M. A. Wazed**, Shamsuddin Ahmed and Nukman Yusoff, Multistage Production Models under Common Processes in an Uncertain Environment, Proceedings of the Asia Pacific Industrial Engineering & Management Systems Conference 2009 (APIEMS 2009), Kitakyushu, Japan, 14-16 December, 2009, Pages 1496-1506.
4. **M. A. Wazed**, Shamsuddin Ahmed, and Nukman Yusoff, Effects of Process Commonalities in Production System under Various Uncertain Factors, International conference for technical postgraduates (TECHPOS 2009), Kuala Lumpur, Malaysia 14 - 15 December 2009 (CD Proceedings, **IEEE Proceedings**)
5. **M. A. Wazed**, Shamsuddin Ahmed, and Nukman Yusoff, Effects of Uncertain Factors on Manufacturing under Commonality, Seminar on Engineering and Information Technology (SEIT), School of Engineering and Information Technology, University Malaysia Sabah, Malaysia, 8-9 July 2009, Pages: 184-190 (CD Proceedings)
6. **M. A. Wazed**, Shamsuddin Ahmed, and Nukman Yusoff, Uncertainties in Logistics and Production Environment: Sources, Factors and Issues, International Conference on Advances in Mechanical Engineering (ICAME), Concorde Hotel, Shah Alam, Malaysia, 24-25 June 2009, Pages 1017-1025 (ISBN: 978-967-305-355-1 (2653), CD Proceedings)
7. **M. A. Wazed**, Shamsuddin Ahmed and Nukman Yusoff, component commonality in multistage production system: models with capacity constraints, International Conference on Mechanical Engineering (ICME), International Engineering Convention 2009 (IntEC2009) Damascus, Syria - Madinah, Saudi Arabia, 11 – 18 May 2009 (CD, Proceedings, Paper ID: ICME/031)

8. **M. A. Wazed**, Hyung Taek Kim and Souman Rudra, Renewable Energy Resources in Bangladesh: Micro Hydro, Renewable Energy (RE2008), Busan, Korea, 13 – 17 October 2008 (Pin Number: AB-061, Paper Number: O-SH-001, Page 181).
9. **J. U. Ahamed, M. A. R. Sarkar and M. A. Wazed, Effectiveness and performance evaluation of heat transfer in turbulent flow through tube with perforated twisted tape insert, Proceedings of the 12<sup>th</sup> Annual Paper Meet, Institution of Engineers', Bangladesh (IEB), 8-9 February 2008, Dhaka, Bangladesh (ID-141, NM-06).**
10. **M. A. Wazed**, Shamsuddin Ahmed and Nukman Yusoff, A review of commonality models in manufacturing resources planning: state-of-the-art and future directions, Proceedings (ISBN: 978-1-905732-49-4) of International Conference on Technology Management and Innovation in China: Challenges and Opportunity in the 21st Century, Beijing, China, 21 – 23 October 2008 Pages 1239-1258 (**ISI indexed**).
11. **M. A. Wazed**, Shamsuddin Ahmed and Nukman Yusoff, Commonality Indices in Manufacturing Resource Planning, Proceedings (ISBN: 978-983-2948-54-4) of National Conference on Design and Concurrent Engineering (DECON), Melaka, Malaysia, 28 – 29 October 2008, Pp. 39-48,
12. **M. A. Wazed**, Shamsuddin Ahmed and Nukman Yusoff, Commonality: Tool for Dampening Uncertainties in Manufacturing Resources Planning, CD Proceedings (ISBN: 978-983-42745-1-1) of Asia Pacific Conference on Management of Technology and Technology Entrepreneurship (APCMOTTE), Melaka, Malaysia, 29 – 30 October 2008.
13. **M. A. Wazed**, Shamsuddin Ahmed and Nukman Yusoff, Study of Commonality Models in Manufacturing Resources Planning, Proceedings (ISBN: 978-979-18925-0-6) of the 9th Asia Pacific Industrial Engineering & Management Systems Conference and the 11th Asia Pacific Regional Meeting of the International Foundation for Production Research (APIEMS), Nusa Dua, Bali, Indonesia, 3 – 5 December 2008, Pages 2176-2188.
14. **M. A. Wazed**, Shamsuddin Ahmed, and Nukman Yusoff, Uncertainties in Manufacturing Environment, CD Proceedings (ISBN: 983-41909-7-2) of Regional Development International Conference and Exhibition (REDICE'08), Multimedia University, 63100 Cyberjaya, Malaysia, 5 – 6 November 2008.
15. Shamsuddin Ahmed and **M. A. Wazed**: Project Management Maturity Model (PMMM) in Developing On-line Statistical Process Control Software: An Integrated Approach, CD Proceedings of International Conference on Project Management (ICoPM), Kuala Lumpur, Malaysia, 18 – 20 November 2008, Pages 511-524.
16. **M. A. Wazed**, Shamsuddin Ahmed and Nukman Yusoff, Managing Quality and Lead Time Uncertainties Under Component Commonality, CD Proceedings of the 1<sup>st</sup> Regional Conference in Manufacturing Engineering (AUN/SEED-Net - RC ManuE 2008), Century park hotel, Metro Manila, Philippines, 24-25 November, 2008.
17. **M. A. Wazed**, Shamsuddin Ahmed, and Nukman Yusoff, Managing competitive outcomes in manufacturing under uncertain conditions and component commonality, 3rd International Conference on Postgraduate Education (ICPE-3), Penang, Malaysia, 16 – 17 December 2008 (Paper ID: BGR161).
18. Shamsuddin Ahmed and **M. A. Wazed**, Multifactor Productivity Measurements Model (MFPMM) as Effectual Performance Measures in Manufacturing, CD Proceedings of the 2nd Engineering Conference on Sustainable Engineering Infrastructures Development and Management, Kuching, Sarawak, Malaysia, 18 – 19 December 2008, Pages 824-832.
19. **M. A. Wazed**, Shamsuddin Ahmed and Nukman Yusoff, Uncertainty factors and theoretical measurement of commonality in manufacturing resources planning, CD Proceedings of the 2nd Engineering Conference (EnCon) on Sustainable engineering infrastructures development & Management, Crowne Plaza Riverside Hotel, Kuching, Sarawak, Malaysia, 18-19 December 2008, Pages 893-898.

20. **M. A. Wazed**, Shamsuddin Ahmed and Nukman Yusoff, Component Commonality for Quality and Lead Time Uncertainties in Manufacturing, e-Proceeding (ISSN: 1823-3287), International Graduate Conference on Engineering and Science (IGCES), Universiti Teknologi Malaysia (UTM), Skudai, Johor Bahru, Malaysia, 23 -24 December 2008.
21. **Wazed M. A.**, Jahirul M. I., Saidur R. and Hossain M. M., Extraction of fuel from municipality solid wastes, e-Proceeding (ISSN: 1823-3287), International Graduate Conference on Engineering and Science (IGCES), Universiti Teknologi Malaysia (UTM), Skudai, Johor Bahru, Malaysia, 23 -24 December 2008.
22. **M. A. Wazed**, M. T. Islam & A. K. M. Sadrul Islam, A Feasibility Study of Tidal Power Generation At Surjomukhi Canal In Hatiya Island, Bangladesh, CD Proceeding of the 14<sup>th</sup> Tri-University International Joint Seminar and Symposium, Chiang Mai, Thailand, 21 – 26 October, 2007.
23. **M. A. Wazed**, M. T. Islam, M. A. Islam & A. K. M. Sadrul Islam, Fabrication, Installation And Performance Test of A Model Type Vertical Shaft Wind Mill, CD Proceedings of the 7<sup>th</sup> International Conference on Mechanical Engineering (ICME), BUET, Dhaka, Bangladesh, 29 – 31 December 2007.
24. J. U. Ahamed, M. A. Rashid Sarkar, M. H. Khan and **M. A. Wazed**, Heat transfer in turbulent flow through tube with perforated twisted tape insert, CD Proceedings of the 7<sup>th</sup> International Conference on Mechanical Engineering (ICME), BUET, Dhaka, Bangladesh, 29 – 31 December 2007.
25. M.T. Islam, **M. A. Wazed** and T. Mohammad, Design and fabrication of a 5 dof dexterous robotic arm for industrial tasks, CD Proceedings of the 7<sup>th</sup> International Conference on Mechanical Engineering (ICME), BUET, Dhaka, Bangladesh, 29 – 31 December 2007.
26. **M. A. Wazed**, Fatema N., Islam M. T and Islam A.K.M.S, Study and Analysis of Power Generation by Wind Turbine, Case Study: Muhuri Dam Project Area, Proceedings of the 11th Annual Paper Meet 25-26 December 2006, Dhaka, pp 104 -111.
27. Rahman M. M., **M. A. Wazed**, Islam M. T., Islam AKM. S., Potential of Fish Drying Using Solar Dryer in Bangladesh, Proceedings of the 5<sup>th</sup> International Mechanical Engineering Conference (IMEC) & 10<sup>th</sup> Annual Paper Meet (APM), The Institution of Engineers, Bangladesh, Mechanical Engineering Division, 30 September – 02 October 2005, Dhaka, Bangladesh, PP 59-65.
28. **M. A. Wazed**, Islam M. T., Hoque M. I., Islam AKM. S., Chowdhury M. S. U., Solar Salt Production in Bangladesh, Proceedings of the 5<sup>th</sup> International Mechanical Engineering Conference (IMEC) & 10<sup>th</sup> Annual Paper Meet (APM), The Institution of Engineers, Bangladesh, Mechanical Engineering Division, 30 September – 02 October 2005, Dhaka, Bangladesh, PP 91-96.
29. **M. A. Wazed**, Ahmmad S. M. and Ullah N, Resource Allocation For A Crude Refinery Company, Proceedings of the 3<sup>rd</sup> International Conference & 8<sup>th</sup> Annual Paper Meet, The Institution of Engineers, Bangladesh, Mechanical Engineering Division, 20-22 March 2003, Paper No. 42, PP 327-331.
30. **M. A. Wazed**, Biswas S. K., Rawaz S, Optimization of product-mix problem of a typical manufacturing company, Proceedings of the 3<sup>rd</sup> International Conference & 8<sup>th</sup> Annual Paper Meet, The Institution of Engineers, Bangladesh, Mechanical Engineering Division, 20-22 March 2003, Abstract No. 34 PP 34
31. **M. A. Wazed**, Kabir H. and Sharmin N, Optimum Scheduling Of Manpower Of A Typical Power Generation Plant, Proceedings of the 3<sup>rd</sup> International Conference & 8<sup>th</sup> Annual Paper Meet, The Institution of Engineers, Bangladesh, Mechanical Engineering Division, 20-22 March 2003, Paper No. 39 PP 303-305.

32. **M. A. Wazed**, Ahmmad S. M., Impact of economies of scale on number and location pattern of facility centers for different transportation networks, Proceedings of the Second International Conference on Manufacturing (ICM2002), Bangladesh University of Engineering and Technology (BUET), Department of Industrial Production and Engineering, August 09 – 11, 2002, Vol. 02, Paper No. 53 PP 441-448
33. Faruque O., **M. A. Wazed**, Performance Study of a Single Flat Plate Solar Collector, Proceedings of the Sixth Annual Paper Meet, The Institution of Engineers, Bangladesh, Mechanical Engineering Division, 27 – 29 January, 2000, Paper No. 10 PP 70 – 76
34. Faruque O., **M. A. Wazed**, Numerical Solutions of Turbulent Slot Jet, Proceedings of the Fourth Annual Paper Meet, The Institution of Engineers, Bangladesh, Mechanical Engineering Division, 23 – 25 October, 1997, Paper No. 40 PP 324 – 332

### **Citation received:**

- **M. A. Wazed** and Shamsuddin Ahmed, Multifactor Productivity Measurements Model (MFPMM) as Effectual Performance Measures in Manufacturing, Australian Journal of Basic and Applied Sciences Research, 2(4): 987-996, 2008.-
  - a. S. Birgün, C. Kahraman, K. Gülen, Fuzzy Productivity Measurement in Production Systems. *Production Engineering and Management under Fuzziness*, 252: 417-430, 2010.
- **M. A. Wazed**, Y. Nukman, M. T. Islam, Design and fabrication of a cost effective solar air heater for Bangladesh, Applied Energy, 87(10): 3030-3036, 2010 (**ISI indexed and Elsevier imprinted Journal**).
  - a. Akpınar, E.K. and F. Koçyigit, Energy and exergy analysis of a new flat-plate solar air heater having different obstacles on absorber plates. Applied Energy, 87(11): 3438-3450, 2010.

As on 20 November 2010