

Biography

kuet

Dr. Md. Habibur Rahman

Professor

Research AreaFluid Mechanics, Nonlinear System Analysis with ODEs & PDEs

Education

Doctor of Philosophy

Swinburne University of Technology, Melbourne, Australia (2011-2015)

Thesis Title: Analysis of Thermomagnetic Convection in a Vertical Layer of Magnetic Fluid with Arbitrary Orientation of Magnetic Field

Master of Philosophy

Khulna University of Engineering & Technology, Bangladesh (2007-2009)

Thesis Title: On Some Analytical Approximate Solutions of Fourth Order damped Oscillatory and Near Critically Damped

Nonlinear Systems
Master of Science

University of Rajshahi, Rajshahi, Bangladesh(1995-1996)Achievement: First Class

Bachelor of Science

University of Rajshahi, Rajshahi, Bangladesh (1992-1995) Achievement: First Class

Higher Secondary Certificate

Gov. Edward College, Pabna, Bangladesh (1990-1992) Achievement: First Division

Secondary School Certificate

Bangladesh Railway Chandraprabha Vidyapitha, Paksey, Pabna, Bangladesh (1988-1990) Achievement: First Division

Service Records

Professor

Department/Section: Mathematics

Khulna University of Engineering & Technology From 01-01-1970 to 01-01-1970

Tutor

Department/Section: Mathematics

Swinburne University of Technology From 01-01-1970 to 01-01-1970

Lecturer (Part time)

Department/Section: Mathematics

University of Khulna *From 01-01-1970 to 01-01-1970*

Associate Professor

Department/Section: Mathematics

Khulna University of Engineering & Technology $From\ 01\text{-}01\text{-}1970\ to\ 01\text{-}01\text{-}1970$

Assistant Professor

Department/Section: Mathematics

Khulna University of Engineering & Technology From 01-01-1970 to 01-01-1970

Lecturer

Department/Section: Mathematics

Khulna University of Engineering & Technology From 01-01-1970 to 01-01-1970

Lecturer

Department/Section: Mathematics

Ishurdi Mohila Degree College From 01-01-1970 to 01-01-1970

Research Interest

Fluid Mechanics, Nonlinear System Analysis with ODEs & PDEs

Fluid Mechanics, Nonlinear System Analysis with PDEs

Publication

Books

Journals

18. (2019), "Thermomagnetic-gravitational convection in a vertical layer of ferrofluid in an applied magnetic field," *International Research Journal of Engineering and Technology*, vol06, no.03, pp.2698-2707

17. Rahman, H. and Suslov, S. A. (2016), "Magneto-gravitational convection in a vertical layer of ferrofluid in a uniform oblique magnetic

- field," Journal of Fluid Mechanics (JFM), Cambridge University Press, vol795, pp.847-875
- 16. Rahman,H. and Suslov,S. A. (2015), "Thermomagnetic convection in a layer of ferrofluid placed in a uniform oblique external magnetic field," *Journal of Fluid Mechanics (JFM)*, Cambridge University Press, vol764, pp.316-348
- 15. Rahman, M. H. and Akbar, B. I. H. a. M. A. (2011), "An Analytical Approximate Solution of Fourth Order Damped-Oscillatory Nonlinear Systems," *Research Journal of Mathematics and Statistics*, vol03, no.01, pp.12-19
- 14. Alom, M. A. , Rahman, M. H. and Akbar, B. M. I. H. a. M. A. , "Perturbation Technique for Analytical of Fourth Order Near Critically Damped Nonlinear Systems," *International Journal of Basic & Applied Sciences IJBAS-IJENS*, vol11, no.01, pp.2011
- 13. Haque,B. M. I. and Rahman,M. A. A. a. M. H. (2011), "olution of Fourth Order Critically Damped Oscillatory Nonlinear Systems," *International Journal of Basic & Applied Sciences IJBAS-IJENS*, vol11, no.03, pp.68-77
- 12. Rahman, M. H. and Akbar, M. A. K. A. a. M. A. (2010), "An Asymptotic Method for Certain Fourth Order Damped Oscillatory Nonlinear Systems," *Journal of Engineering Science*, vol01, pp.53-60
- 11. Haque,B. M. I. ,Rahman,M. H. and Akbar,a. M. A. (2010), "Asymptotic Solution of Fourth Order Critically Damped Nonlinear Systems Under Some Special Conditions," *Journal of Engineering Science*, vol01, pp.95-104
- 10. Islam, M. R. ,Rahman, M. H. and Akbar, a. M. A. (2009), "Asymptotic Solutions of Fourth Order Near Critically Damped Nonlinear Systems," *Indian Journal of Mathematics*, vol51, no.03, pp.611-626
- 9. Rahman, M. H. and Akbar, B. M. I. H. a. M. A. (2009), "Asymptotic Solutions of Fourth Order Near Critically Damped Nonlinear Systems," *Journal of Informatics and Mathematical Sciences*, vol01, no.01, pp.61-73

Conference

- 3. Rahman,M. H. and Suslov,S. A. (1â€"5 February 2015), "Effects of oblique magnetic field on mixed ferrofluid convection," **ANZIAM 2015**, ISBN: 978-0-9942562-0-1
- 2. Suslov,S. A. and Bozhko,H. R. a. A. A. (23-25 November 2014), "Oscillatory magnetoconvective instability in a ferrofluid layer placed in an oblique external magnetic field," *The American Physical Society*
- 1. Suslov,S. A. and Rahman,H. a. A. A. B. (2-6 February 2014), "Unexpected waves in ferrofluid convection," **ANZIAM 2014**, ISBN: 978-0-473-27350-7