



Md. Golam Kader

Professor

Research Area Analysis of Intensity of singularity in 3D bonded joints by FEM and BEM.

Education

M.Sc. Mechanical Engineering

Khulna University of Engineering and Technology (KUET), Khulna, Bangladesh (2003)

Thesis Title: [Flow and Heat Transfer Characteristics of Wall Jet over Rough Surface.](#)

B.Sc. Engineering

Khulna Engineering College, Rajshahi University, Bangladesh (1986) Group: Mechanical Engineering, Merit Position: 5th,

Service Records

- **Testing Officer**

Department/Section: Consultancy, Research & Testing Services (CRTS) Department of Mechanical Engineering
Khulna University of Engineering & Technology From 01-01-1970 to 01-01-1970

- **Professor**

Department/Section: Department of Mechanical Engineering
Khulna University of Engineering & Technology From 01-01-1970 to 01-01-1970
Working Area: Teaching & Research

- **Associate Professor**

Department/Section: Department of Mechanical Engineering
Khulna University of Engineering & Technology From 19-11-2000 to 01-01-1970
Working Area: Teaching & Research

- **Assistant Professor**

Department/Section: Department of Mechanical Engineering
Khulna University of Engineering & Technology From 01-01-1970 to 19-11-2000
Working Area: Teaching & Research

- **Lecturer**

Department/Section: Department of Mechanical Engineering
Khulna University of Engineering & Technology From 01-01-1970 to 01-01-1970
Working Area: Teaching & Research

Research Interest

Analysis of Intensity of singularity in 3D bonded joints by FEM and BEM.

The Intensity of singularity for the bonded joint can be evaluated by the Boundary Element Method (BEM) and Finite Element Method (FEM). In our present investigation, we use 3D transversely isotropic elastic bonded structure. We analyze the optimal material combination such that the intensity of singularity and order of the stress singularity can be minimized in bonded joint.

Publication

Books

Journals

6. Islam, M. S., Kader, M. G. and Ahmed, M. K. U. a. M. (2014.), " Analysis of order of Stress Singularity at a Vertex in 3D Transversely Isotropic Piezoelectric Dissimilar Bonded Joint," **Journal of Mechanical Engineering**, IEB, Bangladesh, vol44, no.1
5. Kader, M. G. and Hossain, K. A. (2013.), " Free convective Heat transfer from an object at low Rayleigh number," **Journal of Mechanical Engineering**, IEB, Bangladesh, vol43, no.1
4. (29 January 2011.) , " Experimental Investigation of Drag Force Reduction Mechanism for Flow Around a Circular Cylinder , " **International Journal of Engineering & Applied Science (IJEAS)**, IJEAS, vol3, no.2, pp.69-75
3. Mashud, M., kader, M. G. and Umemura, A. (Sep 2013.) , " Wing Cell Geometry And Pressure Distribution Over The Surface of A Paraglider," **AARJMD, A Peer Reviewed International Journal of Asian Academic Research Associates**, AARJMD Asian Academic Research Journal of Multidisciplinary, vol1, no.13
2. kader, M. G., Mashud, M. and Rakib, M. H. (Sep 2013.) , " Effect of Nominal Diameter And Nozzle To Throat Area Ratio on Suction Lift of Water Jet Pumps," **AARJMD, A Peer Reviewed International Journal of Asian Academic Research Associates**, AARJMD Asian Academic Research Journal of Multidisciplinary, vol1, no.13
1. Islam, M. S., Kader, M. G. and Ahmed, M. K. U. a. M. (2013, USA.) , " Analysis of Order of Singularity at a Vertex in 3D Transversely Isotropic

Conference

11. Hayder, M. G. K. M. and Islam, M. R. a. M. (2001.) , "Suitable Raw material for Briquette in Bangladesh," **Department of Mechanical Engineering, BIT, Khulna, Bangladesh and AIT, Bangkok, Thailand** , Seminar of URERAB
10. (1997.) , "Determination of Optimum Number of Manpower - A case study," **Fourth Annual Paper Meet** , IEB, pp.250-253
9. (1997.) , "Planning for Preventive Maintenance - A case study," **Fourth Annual Paper Meet** , IEB, pp.266-271
8. (1994) , "Prospect of Energy Conservation - A case study," **First Annual Paper Meet** , IEB, pp.266-271
7. Kader, K. , Hossain, M. &. and K.A., K. (16-19 August 2004.) , "Effect of Surface Roughness on Wall Jet," **2nd International Energy Conversion Engineering Conference**
6. Mashud, M. and Miyasaka, G. K. a. T. (2003.) , "Numerical Performance Analysis of Pulse Detonation Engine," **3rd International conference and 8th Annual paper meet.** , IEB, pp.77-80
5. Mashud, M. and Miyasaka, G. K. a. T. (2003) , "Detonation Propagation in variable cross section Channels," **3rd International conference and 8th Annual paper meet.** , IEB, pp.57-60
4. Kader, M. G. , Rahman, M. M. and Rahman, D. N. A. M. a. D. A. M. (2003.) , "Improved biomass briquetteing technology for reducing environment pollution," **Proceeding of the 2nd Regional Conference on Energy Technology Towards a Clean Environment**
3. (2002) , "Study of Compressed Natural gas vehicales and the potentiality of using compressed natural gas as a fuel in Bangladesh.," **2nd International Conference and 7th Annual Paper Meet.** , IEB, pp.110-117
2. Hosen, M. S. , Tanvir, A. and Kader, M. G. (December 2011.) , "Improved Automobile Emission Purification System By Designing Modified Catalytic Converter," **Proceeding of the international conference on Mechanical engineering and Reneable energy** , ICMERE 2011
1. Siraj, M. Z. and Kader, M. G. (December, 2014.) , "Design and Construction of an Automatic Gas Welding System," **3rd International Conference on Mechanical, Industrial and Energy Engineering ICMIEE**