
Curriculum Vitae

Prasun Jana

PhD student, IIT Kharagpur.

Education:

MS–(2005): Aerospace Engineering: Indian Institute of Technology, Madras.

BE–(2002): Mechanical Engineering: Bengal Engineering College, Shibpur.

Professional Experience:

General Electric, JFWTC, Bangalore: (2007 – 2010).

Position held: Engineer/Technologist.

Major Responsibilities: Design and analysis of wind turbine blades. Ownership of an in-house Matlab and ANSYS based structural simulation tool.

Indian Space Research Organization, Trivandrum: (2005 – 2007).

Position held: Scientist/Engineer-‘SC’.

Major Responsibilities: Design and analysis of composite structures for spacecraft components. Generation of fabrication drawings and process documents.

Publications:

Based on PhD work:

1. Jana, P. and Chatterjee, A., An internal damping formula derived from dispersed elasto-plastic flaws with Weibull-distributed strengths, submitted to *International Journal of Mechanical Sciences*.
2. Jana, P. and Chatterjee, A., (2013), Modal damping in vibrating objects via dissipation from dispersed frictional microcracks, *Proceedings of the Royal Society A*, 469: 20120685.
3. Jana, P. and Chatterjee, A., (2011), Frictional dissipation at a small crack under multiaxial periodic stresses, *Proceedings of 15th National Conference on Machines and Mechanisms (NaCoMM)*, IIT Madras, 232–239.

Some earlier publications:

4. Jana, P. and Bhaskar, K., (2007), Analytical solutions for buckling of simply supported rectangular plates under non-uniform biaxial compression or uniaxial compression with lateral restraint, *International Journal of Mechanical Sciences*, 49(10), 1104–1112.
5. Jana, P. and Bhaskar, K., (2007), Analytical solutions for buckling of simply supported rectangular plates due to non-linearly distributed in-plane bending stresses, *Structural Engineering and Mechanics*, 26(2), 151–162.
6. Jana, P. and Bhaskar, K., (2006), Stability analysis of simply supported rectangular plates under non-uniform uniaxial compression using approximate plane stress solution, *Thin-Walled Structures*, 44, 507–516.