

# MEHNAZ RASOOL

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## **Educational Qualification**

- Ph. D. from the Department of Applied Mechanics, Indian Institute of Technology Delhi.
- B. E. from Visvesvaraya Technological University Karnataka.
- HSE in Science (12<sup>th</sup>) from Jammu and Kashmir State Board of School Education, Kashmir
- Secondary School Examination (10<sup>th</sup>) from Jammu and Kashmir State Board of School Education, Kashmir.

## **Achievements and Co-curricular Activities**

- **Gold Medal** in B.E for Securing First Position in the University.
- Recipient of INSPIRE Fellowship by Department of Science and Technology, Govt. of India.
- Secured first position in Industrial Training at National Aviation Company of India Ltd. New Delhi (NACIL)
- Secured 100 % marks in Engineering Mathematics-II and 99% in Engineering Mathematics-I
- Member Board of Studies Punjab Technical University Jalandhar.
- Member Board of Studies Punjab State Board of Technical Education and Industrial Training.
- A Significant Contribution in Organizing the 2nd Indian National Conference on Applied Mechanics (INCAM 2015) organized by Department of Applied Mechanics IIT Delhi.

## **Publications:**

### **Journal Publication:**

1. M. Rasool and M. K. Singha. A finite element study on the nonlinear behaviour of rectangular shear panels. *Thin Walled Structures*. 104 (2016) 248-258.
2. M. Rasool and M. K. Singha. Stability behavior of variable stiffness composite panels under periodic in-plane shear and compression. *Composite Part B: Engineering*, 172 (2019) 472-484.
3. M. Rasool and M. K. Singha. Stability of variable stiffness composite laminates under compressive and shearing follower forces. *Composites Structures* 225 (2019) 111003.
4. M. K. Singha, E. Kumari, M. Rasool and A. Kumar, Nonlinear elastic stability of web panels in built-up sections, *International Journal of Structural Stability and Dynamics*, (2019) 1950064.
5. M. Rasool and M. K. Singha. Nonlinear Aeroelastic flutter analysis of Variable Stiffness Composite Panels under aero-mechanical loads. *Journal of Vibration and Control* , 26 (2020) 724-734.
6. M. K. Singha, E. Kumari, M. Rasool, A. Kumar and P. Chakraborty. Large Amplitude Flexural Vibration Behavior of Rotating Pre-twisted Cantilever Composite Panels. *Composite Structures* (Under Review).
7. M. Rasool and M. K. Singha. Nonlinear dynamic stability of composite shear panels using method of multiple scales and modal reduction (Under Preparation).

### **International Conferences:**

1. M. K. Singha and M. Rasool, Buckling and postbuckling analysis of thin plates under in-plane shear and compression, *International Conference on Advances in Civil and Environmental Engineering 2015* (ACEE 2015) Penang, Malaysia 28-30 July, 2015.
2. M. Rasool and M.K Singha, Static and dynamic stability of stiffened shear panels using finite element method, *Engineering Mechanics Institute Conference (EMI 2016)*, Metz, France, October 25th- 27th, 2016.

### **Reviewer:**

1. Composite Structures

### **Teaching Assistantship at IITD:**

- AML 805 (3-0-0), Advanced Finite Element Method
- AML 705 (3-0-2), Finite Element Method
- AML 732 (3-0-0), Advance Solid Mechanics
- APL 108 (3-1-2), Mechanics of Solids
- APL 100 (3-0-0), Engineering Mechanics

### **Software knowledge**

- MATLAB
- FORTRAN
- ANSYS
- ETABS
- SAFE
- STAAD PRO
- SOLID EDGE