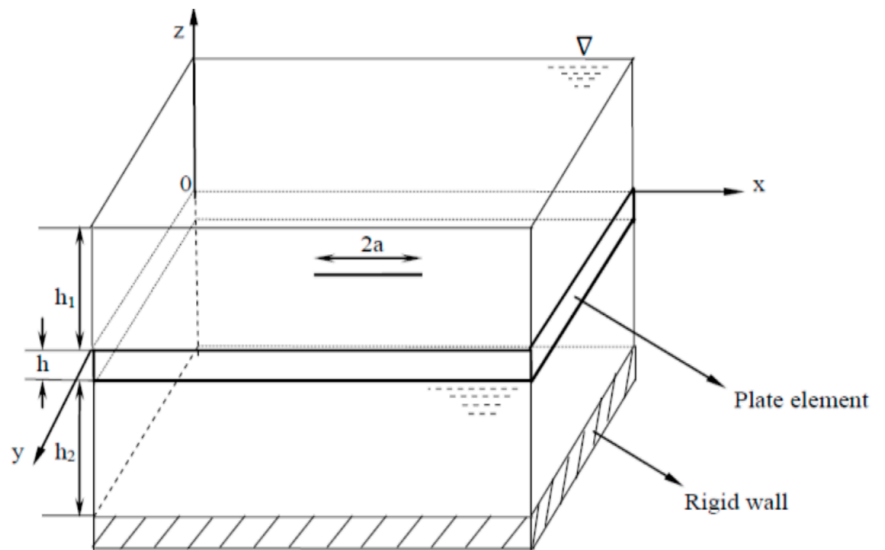




**Professor Prasad V. Joshi**



From: Shashank Soni, N. K. Jain, P. V. Joshi, Effect of thermal environment on vibration analysis of partially cracked thin isotropic plate submerged in fluid, Journal of Solid Mechanics, Vol. 11, No. 1 (2019) pp. 120-143.

See:

<https://iiitn.ac.in/faculty-bse-pvj.php>

[https://www.researchgate.net/scientific-contributions/2051890144\\_PV\\_Joshi](https://www.researchgate.net/scientific-contributions/2051890144_PV_Joshi)

Department of Basic Sciences and Engineering  
Indian Institute of Information Technology, Nagpur, India

### **Education:**

PhD. in Solid Mechanics from NIT, Raipur (2016)

M. Tech. in Mech from REC, Kurukshetra (2001)

B. E. in Production Engg. from COE Amravati University (1996)

### **Experience:**

2018 to till date - Assistant Professor, IIIT Nagpur

2002 - 2018 - Associate Professor, Professor, SSTC, Bhilai, India

1996 - 1998 - South Asia Tyres Ltd., Engineer, Aurangabad

### **Selected Publications:**

- Joshi, P.V. et al., Stability and dynamic analysis of partially cracked thin orthotropic plate under thermal environment: An analytical approach, Mechanics Based Design of Structures and Machines, An International Journal, 2019 (SCI Journal)
- Joshi, P.V. et al., Effect of fluid-structure interaction on vibration and deflection analysis of generally orthotropic submerged micro-plate with crack under thermal environment: An analytical approach, J. Vib. Eng. Technol. (2019). (SCI)
- Joshi, P.V. et al., Vibration, buckling and deflection analysis of cracked thin magneto electro elastic plate under thermal environment, Journal of Solid Mechanics, 2019. (SCI Journal)
- Joshi, P.V. et al., Vibration and deflection analysis of thin cracked and submerged orthotropic plate under thermal environment using strain gradient theory, Nonlinear Dyn 96(2), 1575-1604 (2019), SPRINGER. (SCI JOURNAL)

- A. Gupta, N. K. Jain, R. Salhotra, P.V. Joshi, Effect of crack location on vibration analysis of partially cracked isotropic and FGM micro-plate with non-uniform thickness: An analytical approach, *International Journal of Mechanical Sciences*, 145(2018) 410-429 (Elsevier Ltd.) I.F.: 3.57 (SCI JOURNAL)
- P.V. Joshi, An extension of line spring model for vibration analysis of thin isotropic plate containing multiple part-through cracks: An analytical approach, *Vibrations in Physical Systems (SCI Journal)* (Vol. 29, 2018 022)
- Shashank Soni, N. K. Jain, P. V. Joshi, Effect of thermal environment on vibration analysis of partially cracked thin isotropic plate submerged in fluid, *Journal of Solid Mechanics*, Vol. 11, No. 1 (2019) pp. 120-143. (SCI Journal)
- Shashank Soni, N. K. Jain, P. V. Joshi, Vibration analysis of partially cracked plate submerged in fluid. *Journal of Sound and Vibration, SCI Journal Elsevier*, Vol 412, 6 January 2018, Pages 28-57 (SCI JOURNAL)
- Shashank Soni, N. K. Jain, P. V. Joshi, Analytical modeling for nonlinear vibration analysis of partially cracked thin magneto-electro-elastic plate coupled with fluid, *Nonlinear Dynamics*, 2017, 90(1), 137-170. (SCI JOURNAL)
- P. V. Joshi, Ankur Gupta, N. K. Jain, R. Salhotra, A. M. Rawani, G. D. Ramtekkar, Effect of thermal environment on free vibration and buckling of partially cracked isotropic and FGM micro plates based on a non classical Kirchhoff's plate theory: An analytical approach, *International Journal of Mechanical Sciences*, Elsevier, Vol. 131-132 (2017), pp 155-170. (SCI JOURNAL)
- P. V. Joshi, N. K. Jain, G. D. Ramtekkar, Gurveer Singh Viridi, Vibration and buckling analysis of partially cracked thin orthotropic rectangular plates in thermal environment, *Thin-Walled Structures Elsevier*, Vol. 109 (2016), pp. 143 -158. (SCI JOURNAL)
- P. V. Joshi , Effect of fibre orientation on non-linear vibration of partially cracked thin rectangular orthotropic micro plate: An analytical approach, *International Journal of Mechanical Sciences*, Vol. 105 (2016), pp. 378 - 397. (SCI JOURNAL)
- P. V. Joshi, N. K. Jain, G. D. Ramtekkar, Effect of microstructure on vibration characteristics of partially cracked rectangular plates based on a modified couple stress theory, *International Journal of Mechanical Sciences*, Elsevier, Vol. 100 (2015), pp. 269 - 282. (SCI JOURNAL)
- Non-linear vibration analysis of isotropic plate with perpendicular surface cracks, *Book Chapter in Advances in Structural Engineering*, Springer, 2015, pp.77 - 94.
- P. V. Joshi, N. K. Jain, G. D. Ramtekkar, Effect of thermal environment on free vibration of cracked rectangular plate: An analytical approach, *Thin-Walled Structures*, Vol. 91 (2015), pp. 38 - 49. (SCI JOURNAL)
- P. V. Joshi, N. K. Jain, G. D. Ramtekkar, Analytical modeling for vibration analysis of thin rectangular orthotropic/functionally graded plates with an internal crack, *Journal of Sound and Vibration*, Vol. 344 (2015), pp. 377 - 398. (SCI JOURNAL)
- P. V. Joshi, N. K. Jain, G. D. Ramtekkar, Analytical modeling for vibration analysis of partially cracked orthotropic rectangular plates, *European Journal of Mechanics A/Solids*, Vol. 50 (2015), pp. 100 - 111. (SCI JOURNAL)
- P. V. Joshi, N. K. Jain, G. D. Ramtekkar, Analytical modeling and vibration analysis of internally cracked rectangular plates, *Journal of Sound and Vibration*, Vol. 333, Issue 22, (2014), pp. 5851-5864. (SCI JOURNAL)