

## Research & Publications

### Books: 01

1. An Introduction to Strength of Materials, K.K.Shukla, Anuj Jain,& Ramesh Pandey (Narosa Publications, 2014, ISBN: 978-81-8487-101-2)

### Book Chapters: 02

1. Buckling and Post-buckling of Composite Plates Under Thermal Loadings, K. K. Shukla and R. Pandey, Encyclopedia of Thermal Stresses, Editor- R. Hetnarski, DOI 10.1007/978-94-007-2739-7, © Springer Science+Business Media Dordrecht , 505-516, (2014).
2. Devi N., Bhar A., Pandey R. (2020) Isogeometric FE Analysis of Laminated Composite Plates. pp 321-331, In: Biswal B., Sarkar B., Mahanta P. (eds); Advances in Mechanical Engineering (Select Proceedings of ICRIDME 2018), Book Series: Lecture Notes in Mechanical Engineering. Feb, 2020, Springer, Singapore. Print ISBN: 978-981-15-0123-4, Online ISBN: 978-981-15-0124-1.

### Journals: 14

1. Prakash, Ankit, Nishant Sati, Piyush Pratap Singh, Sajal KB Degala, Anubhav Rawat, Ramesh Pandey, and R. P. Tiwari. "Design of economic PODS to safeguard against contagious diseases using computational fluid dynamics (CFD) ", Journal of Physics: Conference Series, vol. 1849, no. 1, p. 012006. IOP Publishing, 2021. (Scopus)
2. Sangharsh Kumar Singh, Ramesh Pandey and A. K. Upadhyay (2020) "A numerical study on combined effects of groove shape and numbers on crashworthiness characteristics of thin-walled tube". Volume 44, Part 6, Pages 4381-4386, Materials Today: Proceeding (Scopus).
3. Sangharsh Kumar Singh, A. K. Upadhyay and Ramesh Pandey (2020) "A numerical analysis of effect of variation of groove on thin-walled tube under quasi-static load". Volume 26, Part 2, Pages 2113-2115, Materials Today: Proceeding (Scopus).
4. Kumar Pankaj, Ramesh Pandey (2014) "Buckling Analysis of Symmetric Cross-Ply Laminated Annular Plates with Carbon Nanotubes", J. Applied Mechanics and Materials, Vols 592-594, Pages 901-905 (SCI)
5. G. Bhardwaj, A.K. Upadhyay, R. Pandey, K.K. Shukla (2013), "Nonlinear Flexural and Dynamic Response of CNT Reinforced Laminated Composite Plates", J. Composites-B, 45(1), 89-100 (SCI).

6. Ramesh Pandey, A. K. Upadhyay, K. K. Shukla and Anuj Jain (2012), "Nonlinear Dynamic Response of Elastically Supported Laminated Composite Plates", *J. Mechanics of Advanced Materials and Structures: Taylor & Francis*, 19(6), 397-420 (SCI).
7. S. Singh, K. V. Kulkarni, R. Pandey and H. Singh (2012), "Buckling Analysis of Thin Rectangular Plates with Cutouts subjected to Partial Edge Compression using FEM", *Journal of Engineering, Design and Technology (Emerald)*, 10(1), 128-142 (Scopus).
8. A. K. Upadhyay, Ramesh Pandey and K. K. Shukla (2011), "Nonlinear Dynamic Response of Laminated Composite Plates Subjected to Pulse loading .", *Communications in Nonlinear Science and Numerical Simulation*, 16(11), 4530-4544 (SCI).
9. Ramesh Pandey, A. K. Upadhyay and K. K. Shukla (2010), "Hygro-Thermo- Elastic Post buckling Response of Laminated Composite Plates", *J. Aerospace Engineering, ASCE*, 23(1), 1-13 (SCI).
10. A. K. Upadhyay, Ramesh Pandey and K. K. Shukla (2010), "Nonlinear Flexural Response of Laminated Composite Plates under Hygro-Thermo-Mechanical Loading", *Communications in Nonlinear Sciences and Numerical Simulation*, 15(9), 2634-2650 (SCI).
11. R. Pandey, K. K. Shukla and A. Jain (2009), "Thermoelastic Stability Analysis of Laminated Composite Plates: An analytical approach", *Communications in Nonlinear Sciences and Numerical Simulation*, 14(4), 1679-1699 (SCI).
12. R. Pandey, K. K. Shukla, and A. Jain (2008), "Nonlinear Flexural Analysis of Laminated Composite Plates", *Int. J. Applied Mechanics & Engineering*, 13(3), 707-733 (Scopus).
13. K. K. Shukla, K.V. Ravi Kumar, R. Pandey and Y. Nath (2007), "Postbuckling Response of Functionally Graded Rectangular Plates Subjected to Thermo-mechanical Loading", *Int. J. Structural Stability and Dynamics*, 7(3), 519-541 (SCI).
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## Conferences Proceedings: 25

1. Kumar V., Pandey R & Kumar S. (2021), "Recent Research of Active Vibration Control Analysis of Functionally Graded Materials using Piezoelectric Materials: A Review", in International Conference on Sustainable Engineering (ICSE-2021)", organized by Government Engineering College Bikaner, Rajasthan, held on February 26-27, 2021.
2. Ashwin Pandey, Ankit Prakash, Ramesh Pandey, Anubhav Rawat (2021), "Simulation and Analysis of Natural Gas Pipe Network for MNNIT (Allahabad) Staff Colony", Proceedings of VSAM-2021, 4-5 June, 2021, MNNIT-Allahabad
3. Sangharsh Kumar Singh, A. K. Upadhyay and Ramesh Pandey (2020) "A numerical analysis of effect of variation of groove on thin-walled tube under quasi-static load". 10th International Conference of Materials Processing and Characterization, GLA Mathura.
4. Sangharsh Kumar Singh, A. K. Upadhyay and Ramesh Pandey (2019) "A numerical investigation of collapse behavior and energy absorption of thin-walled grooved tube with variation of groove depth". International Conference on Energy, Environment & Material Sciences (ICE2M), MMTU Gorakhpur.
5. Devi N., Bhar A.\* and Pandey R. (2019), "Static Analysis of Skew Laminated Composite Plates using Isogeometric Finite Element Method", (Paper ID. 141), National Conference on Advances in Structural Technologies (CoAST-2019), NIT Silchar, Shillong, India, February 01-03, 2019.
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7. Ranjeet Nayak, Sangharsh K.Singh, A.K.Upadhyay, Ramesh Pandey (2018),"A numerical investigation into the collapse behavior of thin walled grooved tubes under axial impact", First Symposium and Workshop for Analytical Youth on Applied Mechanics (SWAYAM 2018), BITS Pilani, KK Birla Goa Campus, pp.7-8, 07/2018, Published By. Ane Books Pvt. Ltd..
8. Kumar Pankaj and Ramesh Pandey (2014), " Buckling Analysis of Symmetric Cross Ply Laminate Annular Plates with Carbon Nano Tubes", Periodical of Applied Mechanics and Materials, Scientific.Net, 592-594, 901-905
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Plates”, Proc. 4<sup>th</sup> International Conference on Structural Stability and Dynamics (ICSSD-2012), January 04 – 06, 2012, held at MNIT Jaipur, India, pp. 56-64, Vol.-I

10. G. Bhardwaj, A. K. Upadhyay, R. Pandey and K. K. Shukla (2011), “Effect of CNT Percentage and Aspect Ratio on the Elastic Properties of CNT Reinforced Multi-Scale Composite”, Proc. of International Conference on Advances in Materials and Material Processing (ICAMMP-2011), December 09-11, held at Indian Institute of Technology Kharagpur (West Bengal), India.
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13. S. Singh, H. Singh and R. Pandey (2010), “Design of T-Slotted Type Variable Flange Coupling for Shafts of Different Diameters” Proc. 3<sup>rd</sup> International Conference on Advances in Mechanical Engineering, January 4-6 held at Sardar Vallabhbhai National Institute of Technology, Surat (Gujarat) India, pp. 367-371.
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15. S. Singh, K. V. Kulkarni and R. Pandey (2010), “Design of Low Weight Helical Springs with Isotropic Materials” Souvenir 55<sup>th</sup> Congress of Indian Society for Theoretical and Applied Mechanics, IIT Kharagpur, December 18-21, held at National Institute of Technology, Hamirpur (Himachal Pradesh), India.
16. G. Bhardwaj , K.K Shukla and R.Pandey (2010), “An Investigation of Mechanical Properties of Carbon Nanotube Reinforced Multiscale composites” Accepted for 55<sup>th</sup> congress of the Indian Society of Theoretical and Applied Mechanics, December 18-21, 2010 to be held at National Institute of Technology, Hamirpur (Himachal Pradesh), India.
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19. Sandeep Singh, Ramesh Pandey and Harpreet Singh (2009), "Design and Static Stress Analysis of T- Slotted Type Variable Flange Coupling", ICCMS09, IIT Mumbai, (01-05 December, 2009, pp.-107-108)
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22. R. Pandey, K. K. Shukla and A. Jain (2006), "Postbuckling Response of Laminated Composite Rectangular Plates", ICCMS- 06, IIT Guwahati. (08-10 December, 2006, pp.- 257-263)
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