MADAN LAL CHANDRAVANSHI

List of Publications

➢ International Journals

1. **K**umar, P.S., Mishra, P.K. & Chandravanshi, M.L. Assessing the Health and Functionality of Linear Bearings: A Comparative Study between Original and Replicated Models Using Time-Domain Statistical Techniques. *J Fail. Anal. and Preven.* **24**, 1992–2005 (2024). https://doi.org/10.1007/s11668-024-01983-x
2. Kartheek, M.D.M., Kumar, A. & Chandravanshi, M.L. Vibrational transport dynamics of a particle in an offset slider crank mechanism. *Sādhanā* **49**, 307 (2024). https://doi.org/10.1007/s12046-024-02624-7.
3. Mrityunjay Kumar, Vishesh Ranjan Kar and **Madan Lal Chandravanshi,** Non-linear vibration and parametric optimization of sandwich composite curved shell panels with graphene reinforced skins and auxetic honeycomb core, Mechanics Based Design of Structures and Machines, https://doi.org/10.1080/15397734.2023.2248245.
4. Mrityunjay Kumar, Souvik Singh Rathore, Vishesh Ranjan Kar and **Madan Lal Chandravanshi,** Non-linear thermoelastic vibration and optimum frequency prediction of sandwich composite corrugated panels with honeycomb auxetic core, Polymer Composites, DOI: 10.1002/pc.27799
5. Chitransh Singh, Arnab Das, Vivek Bajpai, **M L Chandravanshi**, Effects of process parameters on tool vibration and force transmissibility in high-speed micro-milling machine. *J Braz. Soc. Mech. Sci. Eng.* **45**, 343 (2023). https://doi.org/10.1007/s40430-023-04266-y
6. Chitransh Singh and **M. L. Chandravanshi** (2022): Dynamic analysis and performance assessment of a vibratory feeder for different motor positions on trough, Mechanics Based Design of Structures and Machines, DOI: 10.1080/15397734.2022.2047720.
7. Arnab Das, Shashank Shukla, Mohan Kumar, Chitransh Singh, **M.L. Chandravanshi,** Vivek Bajpai, Development of a vibration free machine structure for high-speed micro-milling center, The International Journal of Advanced Manufacturing Technology (2021) 116:3489–3506
8. Chitransh Singh and **M. L. Chandravanshi (**2020), Performance and noise analysis of vibratory feeder using dynamic rubber spring model, Proc. of the Inst. of Mech. Eng., Part C: JMES, SAGE Publications, 234 (2)
9. **M. L. Chandravanshi** and A. K. Mukhopadhyay, Modal Analysis of a Vertically Tapered Frame, International Journal of Structural Stability and Dynamics, 2017, Vol. 17(3), pp. 177100
10. **M. L. Chandravanshi** and A. K. Mukhopadhyay, Dynamic analysis of vibratory feeder and their effect on feed particle speed on conveying surface, Measurement, 2017, Vol. 101, pp. 145-156.
11. **M. L. Chandravanshi**, A.R. Mohanty and Fatima, Effect of bubble size on underwater noise spectra, Measurement, 2015, Vol. 60, pp. 258-266.

12. **M. L. Chandravanshi** and A. K. Mukhopadhyay, Analysis of variations in vibration behavior of vibratory feeder due to change in stiffness of helical springs using FEM and EMA methods, Journal of the Brazilian Society of Mechanical Sciences, 2017, Vol. 39(9), pp. 3343-3362.
13. Vivek Bajpai and **M. L. Chandravanshi** (23 Dec 2023): Vibration characteristics of micro-EDM using variable dielectric media, Mechanics Based Design of Structures and Machines, DOI: 10.1080/15397734.2023.2295542.
14. M. H. Ghazwani, and M. L. Chandravanshi, identification of crack in the helical spring of the vibratory feeder using operational modal analysis, *Journal of failure analysis and prevention* – **Under review**
15. **Paresh Mishra and M. L. Chandravanshi,** Finite Element Analysis of Wire Rope Strand Subjected to Axial and Torsional Loading, The Journal of Strain Analysis for Engineering Design – **Under Review**
16. Paresh Kumar and **ML Chandravanshi (Feb 2024)** Finite Element Analysis of Wire Rope Strand Subjected to Axial and Torsional Loading, Journal of Advanced Mechanical Engineering Applications –**Under Review**

National and International Conferences and Scopus indexed papers

1. **M. L. Chandravanshi** and A. K. Mukhopadhyay, Experimental modal analysis of the vibratory feeder and its structural elements, International Journal of Applied Engineering Research, 2015, Vol. 10(13), pp. 33303-33310.
2. Palkesh Maithil , Pankaj Gupta, **M.L. Chandravanshi** (2023), Study of mechanical properties of the natural-synthetic fiber reinforced polymer matrix composite, Materialstoday Proceedings, https://doi.org/10.1016/j.matpr.2023.01.245
3. *Mrityunjay Kumar, **Madan Lal Chandravanshi**, Mayank K Ghosh, Vishesh Ranjan Kar, Kamal Kishore Joshi, Dynamic Analysis of Sandwich Composite Plate Structures with Honeycomb Auxetic Core, **published in a book** Advanced Composite, Materials and Structures, page 173-200, CRC Press.*
4. Mofareh Hassan Ghazwani, AH Alnujaie, **ML Chandravanshi**, Deepak Deepak, Chitransh Singh, Mrityunjay Kumar(2022), Failure Analyses of Tower Crane Using FEM and Theoretical Studies, Yanbu Journal of Engineering and Science, Vol.19, issue 2.
5. Mrityunjay Kumar [a], V.R. Kar, **M.L. Chandravanshi** (2022), Free vibration analysis of sandwich composite plate with honeycomb core, *Materials and Structures*, Volume 56, Part 2, 2022, Pages 931-935, https://doi.org/10.1016/j. matpr.2022.02.561
6. **M. L. Chandravanshi** and Chintransh Singh, Study of Vibratory bowl feeder: A review, paper presented at MENTCA- 2018 on 9-10 February 2018 at IIT(ISM) Dhanbad
7. **M. L. Chandravanshi** and A. K. Mukhopadhyay, Modal Analysis of structural Vibration, Paper (IMECE 2013- 62533), IMECE- 2013 (ASME) on 15 - 21 Nov. 2013 at Manchester Grand Hyatt, San Diego, CA, USA
8. **M. L. Chandravanshi**, A. K. Mukhopadhyay, Modal Analysis of a Container Filled with Water, IMEC- 20114, paper presented at NIT Truchirappalli, 13-15 June 2014 TN, India (Published in Journal Applied Mechanics and Materials, 2014, Vol. 592, pp. 2122-2126).

9. **M. L. Chandravanshi**, Modal analysis of the vibratory feeder unit and its structural elements through FEM technique, on 9-10 October 2015 paper presented at IIT(ISM) Dhanbad (Published in Journal of Mines, Metals & Fuels, Special Issue on MENTCA, 2015, pp.202-207)
10. **M. L. Chandravanshi**, Srinivas Garimela and A. R. Mohanty, Characteristics of underwater bubble noise, ID- A 076, National Symposium of Acoustic (NSA), 17-19 November 2011, Jhansi – India pp. 420-434, ISBN no. 978-81-8329-9 .
11. **M. L. Chandravanshi** and Rakesh Kumar, Modal Analysis of Micro milling and its structural parts using FEM Technique, Second International Conference on Advances in Materials, Manufacturing and Applied Sciences (ICAMMAS'17), 30th to 31 March 2017 at Sai Ram Institute of technology, Department of Mechanical Engineering.
12. **M. L. Chandravanshi** and J.N. Nagarsheth, Review on Kinematics of Finger grippers, paper presented at the International Conference on Emerging Techniques and Applications in Engineering, Technology and Scinences (ICETAETS- 2008), held on 13-14 January 2008 Rajkot-India.
13. **M. L. Chandravanshi** and Sanjay Oraon, Diagnosis Check in the Vibratory Feeder unit using FEA technique, Second International Conference on Advances in Materials, Manufacturing and Applied Sciences (ICAMMAS'17), 30th to 31 March 2017, 2017 at Sai Ram Institute of technology, Department of Mechanical Engineering.
14. **M. L. Chandravanshi**, C Singh , M Kumar, Evaluation of Noise Absorption Capacity of Various Materials and, 2020 the 2nd International Conference on Advances in Materials, Mechanical and Manufacturing (AMMM 2020), Series: Materials Science and Engineering 893 (2020) 012004 IOP Publishing doi:10.1088/1757-899X/893/1/012004
15. Mofareh Hassan Ghazwani, Chitransh Singh, Mohd Azeem, **M. L. Chandravanshi**, Ali Alnujaie, NOISE ANALYSIS OF SUBWAY, Jouf University Science and Engineering Journal (JUSEJ) 2023; 10(1): 10- 20
16. **M.L. Chandravanshi**, Biren Fozdar and Manish Kumar Rajak, oral presentation of paper titled as "Comparative Study of Motorcycle Cast Alloy and Spoked Wheels In Terms of Modal Parameters Using Fem" in the 11th International Conference on Mechanics, Materials and Manufacturing (ICMMM) to be held in Warsaw, Poland in June 14-16.