

Publications

Journal Articles

1. Parametrically excited microcantilever beam under large deflection and mass sensing. *Meccanica*, volume 58, pages 933–957. Springer Science and Business Media LLC, apr **2023**.
Authors: Nikul Jani, G. Chakraborty, and **Surendra Verma**
DOI: <https://doi.org/10.1007/s11012-023-01656-3>
Impact factor: **2.4**
2. Static and dynamic NURBS-based isogeometric analysis of composite plates under hygrothermal environment. *Composite Structures*, volume 284, page 115083. Elsevier BV, mar **2022**.
Authors: Abha Gupta, **Surendra Verma**, and Anup Ghosh
DOI: <https://doi.org/10.1016/j.compstruct.2021.115083>
Impact factor: **6.3**
3. Geometrically nonlinear flexural analysis of multilayered composite plate using polynomial and nonpolynomial shear deformation theories. *Aerospace Science and Technology*, volume 112, page 106635. Elsevier BV, may **2021**.
Authors: **Surendra Verma**, Babu Ranjan Thakur, B.N. Singh, and D.K. Maiti
DOI: <https://doi.org/10.1016/j.ast.2021.106635>
Impact factor: **5.6**
4. Geometrically nonlinear dynamic analysis of laminated composite plate using a nonpolynomial shear deformation theory. *International Journal of Non-Linear Mechanics*, volume 128, page 103635. Elsevier BV, jan **2021**.
Authors: Babu Ranjan Thakur, **Surendra Verma**, B.N. Singh, and D.K. Maiti
DOI: <https://doi.org/10.1016/j.ijnonlinmec.2020.103635>
Impact factor: **3.2**
5. Dynamic analysis of flat and folded laminated composite plates under hygrothermal environment using a nonpolynomial shear deformation theory. *Composite Structures*, volume 274, page 114327. Elsevier BV, oct **2021**.
Authors: Babu Ranjan Thakur, **Surendra Verma**, B.N. Singh, and D.K. Maiti
DOI: <https://doi.org/10.1016/j.compstruct.2021.114327>
Impact factor: **6.3**
6. Dynamic analysis of folded laminated composite plate using nonpolynomial shear deformation theory. *Aerospace Science and Technology*, volume 106, page 106083. Elsevier BV, nov **2020**.
Authors: Babu Ranjan Thakur, **Surendra Verma**, B.N. Singh, and D.K. Maiti
DOI: <https://doi.org/10.1016/j.ast.2020.106083>
Impact factor: **5.6**

Book Chapters

1. Effect of hygrothermal environment on dynamic behaviour of folded laminated composite plate. In *Aerospace and Associated Technology*, pages 112–117. Routledge, sep 2022.
Authors: Babu Ranjan Thakur, **Surendra Verma**, D. K. Maiti, and B. N. Singh
DOI: <https://doi.org/10.1201/9781003324539>

In Conference Proceedings

1. Bending analysis of functionally graded plates under mechanical and thermal environment using non-polynomial shear deformation theory. In Proceedings of the 67th International Congress of ISTAM. Indian Society of Theoretical and Applied Mechanics (ISTAM), dec **2022**.

Authors: Smruti Ranjan Sahoo, **Surendra Verma**, and BN Singh

DOI: https://istam.iitkgp.ac.in/resources/2022/proceedings/Full_paper/PA0143.pdf

2. Dynamic analysis of laminated composite plate using non-polynomial shear deformation theory under hygrothermal environment. In AIAA Scitech 2019 Forum. American Institute of Aeronautics and Astronautics, January **2019**.

Authors: Babu R. Thakur, **Surendra Verma**, Bhriagu N. Singh, and Dipak K. Maiti

DOI: <https://doi.org/10.2514/6.2019-1027>

Patent Filled

1. A holder for stirrer, Inventor: Rabindra Prasad; Co-Inventors: Harikishor Kumar, Parshant Kumar, Abha Gupta, and Surendra Verma. Application No. 202211036036