
Publications

Journal Articles

- 2024 Surendra Verma, Abha Gupta, Rabindra Prasad, and Donatus Oguamanam. Nurbs-based isogeometric formulation for linear and nonlinear buckling analysis of laminated composite plates using constrained and unconstrained tsdts. *Aerospace Science and Technology*, page 109561. Elsevier BV, September 2024.
- 2024 Smruti Ranjan Sahoo, Surendra Verma, and B. N. Singh. Bending analysis of functionally graded plates under mechanical and thermal environment using non-polynomial shear deformation theory. *International Journal of Advances in Engineering Sciences and Applied Mathematics*. Springer Science and Business Media LLC, May 2024.
- 2023 Surendra Verma, Abha Gupta, Babu Ranjan Thakur, Donatus Oguamanam, and BN Singh. A unified buckling formulation for linear and nonlinear analysis of laminated plates using penalty based c0 fem-hsdt model. *International Journal of Non-Linear Mechanics*, page 104619. Elsevier, 2023.
- 2023 Nikul Jani, G. Chakraborty, and Surendra Verma. Parametrically excited microcantilever beam under large deflection and mass sensing. *Meccanica*, volume 58, pages 933–957. Springer Science and Business Media LLC, apr 2023.
- 2022 Abha Gupta, Surendra Verma, and Anup Ghosh. Static and dynamic NURBS-based isogeometric analysis of composite plates under hygrothermal environment. *Composite Structures*, volume 284, page 115083. Elsevier BV, mar 2022.
- 2021 Surendra Verma, Babu Ranjan Thakur, B.N. Singh, and D.K. Maiti. Geometrically nonlinear flexural analysis of multilayered composite plate using polynomial and non-polynomial shear deformation theories. *Aerospace Science and Technology*, volume 112, page 106635. Elsevier BV, may 2021.
- 2021 Babu Ranjan Thakur, Surendra Verma, B.N. Singh, and D.K. Maiti. 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.
- 2021 Babu Ranjan Thakur, Surendra Verma, B.N. Singh, and D.K. Maiti. 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.
- 2020 Babu Ranjan Thakur, Surendra Verma, B.N. Singh, and D.K. Maiti. Dynamic analysis of folded laminated composite plate using nonpolynomial shear deformation theory. *Aerospace Science and Technology*, volume 106, page 106083. Elsevier BV, nov 2020.

Book Chapters

- 2022 Babu Ranjan Thakur, Surendra Verma, D. K. Maiti, and B. N. Singh. Effect of hygrothermal environment on dynamic behaviour of folded laminated composite plate. In *Aerospace and Associated Technology*, pages 112–117. Routledge, sep 2022.

Patent

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