

DEPARTMENT OF CIVIL ENGINEERING
BIT MESRA-PATNA CAMPUS
LIST OF PUBLICATIONS BY FACULTY MEMBERS

1. **Anish**, Chaubey, A. K., Vishwakarma, S., Kumar, A., and Stanis. (2019a). “Transient response of rhombic laminates.”,Structural Engineering and Mechanics, Techno-Press, 70(5), 551.
2. **Anish**, Chaubey, A., Kumar, A., Kwiatkowski, B., Barnat-Hunek, D., and Widomski, M. K. (2019b). “Bi-Axial Buckling of Laminated Composite Plates Including Cutout and Additional Mass.”,Materials, Multidisciplinary Digital Publishing Institute, 12(11), 1750.
3. **Anish**, Gupta, K. K., Kumar, A., Barnat-Hunek, D., and Andrzejuk, W. (2018a). “Dynamic response with mass variation of laminated composite twisted plates.” ,Journal of Mechanical Science and Technology, 32(9), 4145–4152.
4. **Anish**, and Kumar, A. (2018). “Ultimate Strength Analysis of Laminated Composite Sandwich Plates.” ,Structures, 14, 95–110.
5. **Anish**, Kumar, A., and Chakrabarti, A. (2018b). “Influence of openings and additional mass on vibration of laminated sandwich rhombic plates using IHSDT.”,Journal of Thermoplastic Composite Materials, SAGE PublicationsSage UK: London, England, 89270571878568.
6. **Anish**, Kumar, A., and Chakrabarti, A. (2019c). “Failure mode analysis of laminated composite sandwich plate.” ,Engineering Failure Analysis, 104, 950–976.
7. **Anish**, Kumar, A., Chakrabarti, A., Widomski, M. K., and Barnat-Hunek, D. (2020). “Rhombic Laminates with Mass Variations under Dual-Axis Compression.”,Journal of Aerospace Engineering, 33(3).
8. Sharma RN, **Mahto B** and Goel S (2009) Disinfection by-products in chlorinated drinking water and their adverse health effects: a review, Journal of Environmental Research and Development, 3(3): 893-921.
9. **Mahto, B.**, & Goel, S. (2008). Bacterial survival and regrowth in drinking water systems. Journal of environmental science & engineering, 50(1), 33–40.

10. Kandakatla P, **Mahto B** and Goel S [2012] Extent and rate of biodegradation of different organic components in municipal solid waste, *Int. J. Environment and Waste Management*, 11(4): 350-365.
11. **Mahto, B** and Goel, S, Impact of temperature and applied chlorine dose on inactivation and regrowth of HPC bacteria, *Chemical, Biological and Environmental Engineering: Proceedings of the International Conference on CBEE 2009, Singapore, 9-11 October 2009*.
12. **Angshuman Mandal**, Damodar Maity “Finite Element Analysis of Dam-Foundation Coupled System Considering Cone-Type Local Non-Reflecting Boundary Conditions” *Journal of Earthquake Engineering; Taylors & Francis Group*, 20(3); (428-446) **2016**.
13. Nik Zainab Nik Azizan, **Angshuman Mandal**, Taksiah A. Majid, Damodar Maity, Fadzli Mohamed Nazri, “Numerical prediction of stress and displacement of the ageing concrete dam due to alkali-aggregate and thermal chemical reaction”; *Structural Engineering and Mechanics; Techno-Press*; 64(6); 793-802; **2017**.
14. **Angshuman Mandal**, Damodar Maity “Non-linear transient analysis of soil domain under variable soil properties with spring-dashpot type local absorbing boundaries”. *Geomechanics and Geoengineering, An International Journal. Taylors & Francis Group*. 14(4); 297-311; **2019**.
15. **Angshuman Mandal**, Damodar Maity “[Seismic analysis of dam-foundation-reservoir coupled system using direct coupling method](#)” *Coupled Systems Mechanics; Techno-Press*; 8(5); 393-414; **2019**.
16. Mohit Kumar, Ayush Kumar Choudhary, **Angshuman Mandal**, “Size optimization of truss structures for sequential loading scenario using evolutionary algorithms”, *Structural Engineering and Mechanics: An International Journal*, Technopress Publication, Vol. 92, No. 6, 2024, Pages: 587-601 (**SCIE Indexed, Impact Factor: 2.2**) link: <https://www.techno-press.org/content/?page=article&journal=sem&volume=92&num=6&ordernum=5>
17. Mohit Kumar, Ayush Kumar Choudhary, **Angshuman Mandal**, “Weight Minimization of Truss Using Strain Energy Density and Genetic Algorithm for Single and Multiple Load Cases”, *International Journal of Civil Engineering*, Springer Publication, 2024, (**SCIE Indexed, Impact Factor: 1.8 based on 2023**) link: <https://doi.org/10.1007/s40999-024-01044-2>.

18. **Kumari Sweta** and Syed K. K. Hussaini (2018). "Effect of shearing rate on the behaviour of geogrid-reinforced railroad ballast under direct shear conditions", *Geotextiles and Geomembranes*, 46(3), 251-256.
19. **Kumari Sweta** and Syed K. K. Hussaini (2019). "Behaviour evaluation of geogrid-reinforced ballast-sub-ballast interface under shear condition", *Geotextiles and Geomembranes*, 47(1), 23-31.
20. **Kumari Sweta** and Syed K. K. Hussaini (2019). "Performance of Geogrid-Reinforced Railroad Ballast in Direct Shear Mode", *Proceedings of the Institution of Civil Engineers-Ground Improvement*, 172(4), 244-256.
21. Syed K. K. Hussaini and **Kumari Sweta** (2020). "Application of geogrids in stabilizing rail track substructure" *Frontiers in Built Environment*, 6, 20.
22. **Kumari Sweta** and Syed K. K. Hussaini (2020). "Effect of geogrid on deformation response and resilient modulus of railroad ballast under cyclic loading" *Construction and Building Materials*, 264, 120690.
23. Syed K. K. Hussaini and **Kumari Sweta** (2021). "Investigation of deformation and degradation response of geogrid-reinforced ballast based on model track tests", *Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit*, 235(4), 505-517.
24. **Kumari Sweta** and Syed K. K. Hussaini (2022). "Role of particle breakage on damping, resiliency and service life of geogrid-reinforced ballasted tracks", *Transportation Geotechnics*, 37, 100828.