

LIST OF PUBLICATIONS

Faculty: Dr Nishant Sharma

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JOURNAL PUBLICATIONS

Prediction of natural period of RC frame with shear wall supported on soil-pile foundation system using artificial neural network - **Sharma, N.**, Dasgupta, K., and Dey, A. - *Journal of Earthquake Engineering*, doi.org/10.1080/13632469.2020.1824876 (2020)

Natural period of reinforced concrete building frames on pile foundation considering seismic soil structure interaction effects - **Sharma, N.**, Dasgupta, K., and Dey, A. - *Structures*, 27, 1594-1612, doi.org/10.1016/j.istruc.2020.07.010 (2020)

Optimum lateral extent of soil domain length for dynamic SSI analysis of RC framed buildings on pile foundations - **Sharma, N.**, Dasgupta, K., and Dey, A. - *Frontiers in Structural and Civil Engineering*, 14(1), 62–81, doi.org/10.1007/s11709-019-0570-2 (2020)

A state-of-the-art review on seismic SSI studies on building structures - **Sharma, N.**, Dasgupta, K., and Dey, A. - *Innovative Infrastructure Solutions*, 3(1), 22, doi.org/10.1007/s41062-017-0118-z (2018)

BOOK CHAPTERS

Seismic behaviour of RC building frame considering soil-structure interaction effects - **Sharma, N.**, Dasgupta, K., and Dey, A. - *In Advanced Topics in Structural Vibration*, Ed. S. Dutta, E. Inan, S. K. Dwivedy, Springer, Singapore. 157–170: ISBN No. 978-981-15-5862-7 (2021)

Influence of BNWF soil modelling on dynamic of pile foundation for RC frame with structural wall - Sinha, A., **Sharma, N.**, Dasgupta, K., and Dey, A. - *In Advanced Topics in Structural Vibration*, Ed. S. Dutta, E. Inan, S. K. Dwivedy, Springer, Singapore. 277–288: ISBN No. 978-981-15-5862-7, Springer, Singapore (2021)

Importance of inclusion of soil structure interaction studies in design codes - **Sharma, N.**, Dasgupta, K. and Dey, A. - *In Recent Advances in Structural Engineering*, Vol. 2, Ed. A. Rama Mohan Rao, K. Ramanjaneyulu, Springer, Singapore, 233-244: ISBN No. 978-981-13-0365-4 (2019)

Nonlinear static of RC frame buildings during construction stages - Gogoi, A., Bhuyan, B., **Sharma, N.**, and Dasgupta, K. - *In Recent Advances in Structural Engineering*, Vol. 2, Ed. A.

Rama Mohan Rao, K. Ramanjaneyulu, Springer, Singapore, 13-24: ISBN No. 978-981-13-0365-4 (2019)

INTERNATIONAL AND NATIONAL CONFERENCE PAPERS

Influence of shear wall on seismic response of RC frame buildings on pile foundation considering SSI - Dey, A., **Sharma, N.**, and Dasgupta, K. - In 17th World Conference in Earthquake Engineering, 27 September- 2 October 2021, Sendai, Japan. (2020)

Seismic SSI effects on fundamental period of reinforced concrete frame with shear wall - **Sharma, N.**, Dasgupta, K., and Dey, A. - In Proceedings of the 11th Structural Engineering Convention, 19-21 December 2018, Paper No. 20180391_R1, Jadavpur University, Kolkata, India (2018)

Natural period of RC buildings considering seismic soil structure interaction effects - **Sharma, N.**, Dasgupta, K., and Dey, A. - In 16th Symposium on Earthquake Engineering, 20-22 December 2018, Paper No. 275, IIT Roorkee, India (2018)

Nonlinear static behaviour of RC-building frame under lateral loads considering soil structure interaction effects - **Sharma, N.**, Dasgupta, K., and Dey, A. - In Indian Geotechnical Conference, 14-16 December 2017, Paper No. Th12_729, IIT Guwahati, India (2017)

5. Finite element modeling intricacies for SSI studies - **Sharma, N.**, Dasgupta, K., and Dey, A. - In 6th International Conference on Recent Advances in Geotechnical Earthquake Engineering and Soil Dynamics, 1-6 August 2016, Paper No. 43, IIT Roorkee Extension Center, Greater Noida, India (2016)

3D finite element modeling of a large-sized pile group - Acharyya, R., **Sharma, N.**, Dey, A., and Dasgupta, K. - In North East Students Geo-Congress on Advances in Geotechnical Engineering, 22 January 2016, pp. 219-231, NIT Agartala, India (2016)

Review of seismic soil-structure interaction with pile foundation - **Sharma, N.**, and Dasgupta, K. - In UKIERI Workshop on Seismic Requalification of Pile Supported Structures (SRPSS), 7-9 January 2015, IIT Guwahati, India (2015)

Influence of modelling of RC structural walls on dynamic analysis of wall frame buildings - Sahu, S. K., **Sharma, N.**, and Dasgupta, K. - In Proceedings, 10th National Conference on Earthquake Engineering, Earthquake Engineering Research Institute (EERI), Oakland, CA, USA (2014)