List of Publications

Dr. Goutam Ghosh

Journals

1. Praveen Kumar Gupta, Suyesha Agarwal, Goutam Ghosh, Prasanth S, Virendra Kumar and Prabhu Paramasivam. (2023). "Seismic Behaviour of the Curved Bridge with Friction Pendulum System". Journal of Asian Architecture and Building Engineering, Taylor & Francis.
2. Prasanth S, Goutam Ghosh, Praveen Kumar Gupta, Virendra Kumar, Prabhu Paramasivam and Seshathiri Dhanasekaran. (2023). "Selection of Response Reduction Factor Considering Resilience Aspect". Buildings, 13(3), 626 (1-28).
3. Prasanth S, Goutam Ghosh, Praveen Kumar Gupta, Claudia Casapulla and Linda Giresini. (2023). "Accounting for Resilience in the Selection of R Factors for a RC Unsymmetrical Building". Applied Sciences. 13(3), 1316 (1-22).
4. Aman Kumar, Goutam Ghosh, Praveen Kumar Gupta, Virendra Kumar and Prabhu Paramasivam. (2023). "Seismic hazard analysis of Silchar city located in North East India". Geomatics, Natural Hazards and Risk. 14(1), 2170831(1-26).
5. Prasanth S and Goutam Ghosh. (2022). "Effect of Seismicity on the Seismic Resilience of a R.C. Building". Proceedings of the National Academy of Sciences, India Section A: Physical Sciences, 93, 147-161.
6. Praveen Kumar Gupta, Goutam Ghosh, Virendra Kumar, Prabhu Paramasivam and Seshathiri Dhanasekaran (2022). "Effectiveness of LRB in Curved Bridge Isolation: A Numerical Study", Applied Sciences, 12 (21), 1-23.
7. S. Prasanth and Goutam Ghosh. (2021). "Effect of cracked section properties on the resilience based seismic performance evaluation of a building", Structures, Elsevier, 34, 1021-1033.
8. Gupta, Praveen Kumar and Ghosh, Goutam (2020). "Effect of Various Aspects on the Seismic Performance of a Curved Bridge with HDR Bearings", Earthquakes and Structures, 19(6), 427-444.
9. Gupta P. K., Ghosh G. and Pandey, D. K. (2018) "Parametric Study of Effects of Vertical Ground Motions on Base Isolated Structures" Journal of Earthquake Engineering, Taylor and Francis, pp.1-21.
10. Ghosh, G., Singh, Y. and Thakkar, S. K. (2011) "Seismic Response of a Continuous Bridge with Bearing Protection Devices" Engineering Structures, 33, pp. 1149-1156.
11. S. Prasanth and Ghosh, G. (2022). "Role of resilience in selection of R factors for an RC building", Frontiers in Built Environment, 8, 1029209.
12. S. Prasanth and Ghosh, G. (2022). "Sustainability and Resilience Consideration of a RC Building", ECS Transactions, 107 (1), 20385-20394.
13. Aman Kumar and Goutam Ghosh (2022). "Ductility Consideration for a Sustainable RC Building", ECS Transactions, 107 (1), 15451-15462.
14. Prasanth, S. and Ghosh, G. (2021). "Evaluation of seismic resilience of a building with and without URM infill walls", The Indian Concrete Journal, 95 (8), 1-6.
15. S. Prasanth and Goutam Ghosh (2022), "Effect of reduction in column stiffness on the seismic resilience of a building", Materials Today: Proceedings Journal, 55 (2), 354-358.
16. Hemkar. K, Mishra. L. K and Ghosh. G (2022), "Performance evaluation of a RC frame structure from element level to structure level", Materials Today: Proceedings Journal, 55 (2), 370-374.
17. Sinha, Binod Kumar and Ghosh, Goutam (2022), "Material R-factors of Buildings with Irregularity", Materials Today: Proceedings Journal, 55 (2), 259-263.
18. Singh, Kuldip and Ghosh, Goutam (2022), "Stress Behaviour of Concrete Pavement", Materials Today: Proceedings Journal, 55 (2), 246-249.

19. Prasanth S. and Ghosh, Goutam (2021) "Effect of Variation in Design Acceleration Spectrum on the Seismic Resilience of a Building", Asian Journal of Civil Engineering, 22, 331-339.
20. Awasthi, Jitendra, Mehta, Ghosh, Goutam and Mehta, Pradeep Kumar (2021). "Seismic Design of a Curved Bridge as per Performance-based Criteria", Materials Today: Proceedings Journal, 38, 3014-3018.
21. Gupta, Praveen Kumar and Ghosh, Goutam (2021). "Effect of Bi-directional Excitation on a Curved Bridge with Lead Rubber Bearing", Materials Today: Proceedings Journal, 44 (1), 2239-2244.
22. Sinha, Binod Kumar and Ghosh, Goutam (2021), "Efficacy of R-factors in the Performance Based Evaluation of RCC Buildings", Materials Today: Proceedings Journal, 38 (5), 3372-3377.
23. Prasanth S., Ghosh, Goutam and Kulshrestha (2021) "Assessment of Seismic Vulnerability of RCC Buildings with URM Infills", Materials Today: Proceedings Journal, 38 (5), 3053-3065.
24. Prasanth S. and Ghosh Goutam (2019) "Seismic Vulnerability Assessment of a Reinforced Concrete Building Located in India" International Journal of Innovative Technology and Exploring Engineering, 8(11S), pp. 310-314.
25. Gupta Praveen Kkumar and Ghosh Goutam (2017) "Seismic Response of an Isolated Curved Bridge considering Bi-directional Effects" International Journal of Advances in Mechanical and Civil Engineering, 4 (5), pp. 70-72.
26. Awasthi Jitendra, Ghosh Goutam and Mehta P.K. (2016) "Performance Based Seismic Design of a Building" International Journal of Advanced Technology in Engineering and Science, 4 (4), pp. 74-83.
27. Gupta, Praveen Kkumar and Ghosh, Goutam (2014) "Seismic performance of a curved bridge with High Damping Rubber Bearing and Friction Pendulum System" International Journal of Earth Sciences and Engineering (IJEE), 4, pp. 1012-1016.
28. Gupta, Praveen Kumar and Ghosh, Goutam (2014) "Response of a Curved Bridge with Elastomer-based and Friction-based Bearings" International Journal of Civil and Structural Engineering IJCSE, 1 (3), pp. 36-40.
29. Gupta, Praveen Kumar and Ghosh, Goutam (2014) "Effect of Radius of Curvature on the Seismic Response of an Isolated Curved Bridge" International Journal of Advance Research In Science and Engineering, 3 (1), pp. 227-236.
30. Ghosh, Goutam, Singh, Yogendra and Thakkar, Shashi Kant (2011) "Seismic Response of Continuous Bridge with Isolation Bearings" Institution of Civil Engineers, ICE, Bridge Engineering, 164 (BE4), pp. 221-225.
31. Ghosh, Goutam and Singh, Yogendra (2009) "Bi-directional Effects on the Response of an Isolated Bridge" ACEE Int. J. on Recent Trends in Engineering, 1 (6), pp. 6-10.
32. Ghosh, Goutam, Singh, Yogendra and Thakkar, Shashi Kant (2008) "Performance-based Seismic Design of a Continuous Bridge" Institution of Civil Engineers, ICE, Bridge Engineering, 161 (BE4), pp. 177-182.

Conferences

1. Aman Kumar, Goutam Ghosh and Nitin Jain (2023), "The Effects of Height on the Seismic Vulnerability of RC Frame Buildings", 13th Structural Engineering Convention (SEC), IIT Roorkee, Decemeber 7-9, NIT Nagpur.
2. Nitin Jain, Goutam Ghosh and Aman Kumar (2023), "Pushover Analysis of a RC Building Resting on Different Sloping Angles", 13th Structural Engineering Convention (SEC), IIT Roorkee, Decemeber 7-9, NIT Nagpur.
3. Praveen Kumar Gupta and Goutam Ghosh (2022), "Seismic Response of an Isolated Curved Bridge with Lead Rubber Bearing by Considering Design Aspect", 12th Structural Engineering Convention -An International Event (SEC-2022), MNITJaipur, 19-22 December, 2022.

4. Nitin Jain and Goutam Ghosh (2022), "Pushover Analysis of a RC Building Resting on Sloping Ground", International Conference on Advancements in Interdisciplinary Research towards Smart and Sustainable Society (AIR2022), MNNIT Allahabad, May 6-7, 2022.
5. Aman Kumar and Goutam Ghosh (2022), "Seismic Consideration of a RC Frame Building from the Sustainability Aspect", 17th Symposium on Earthquake Engineering, IIT Roorkee, November 14-17, 2022.
6. Prasanth S and Goutam Ghosh (2020), "Implementation of framework for seismic resilience assessment of a R.C. Building", 7th International conference on "Recent Advances in Geotechnical Earthquake Engineering and Soil Dynamics", IISC Bangalore, India.
7. Prasanth S and Goutam Ghosh (2020), "Effect of Various Parameters of Design Acceleration Spectrum on Seismic Resilience of a Structure", Second ASCE India Conference on "Challenges of Resilient and Sustainable Infrastructure Development in Emerging Economies- 2020", Kolkata-India.
8. Sinha, Binod and Ghosh, Goutam (2020), "Estimation of R-factor for Buildings with Plan Irregularities", Second ASCE India Conference on "Challenges of Resilient and Sustainable Infrastructure Development in Emerging Economies", Kolkata, India.
9. Singh, Kuldip and Ghosh, Goutam (2020), "Stress of Concrete Pavement using Finite Element Method", Second ASCE India Conference on "Challenges of Resilient and Sustainable Infrastructure Development in Emerging Economies", Kolkata, India.
10. Hemkar, Kshama, Mishra, Laxmi Kant and Ghosh, Goutam, (2020), "Ductility Assessment of an RC Beam Section with Variation of Engineering Properties of Material", Second ASCE India Conference on "Challenges of Resilient and Sustainable Infrastructure Development in Emerging Economies", Kolkata, India.
11. Awasthi, Jitendar, Ghosh, Goutam and Mehta, Pradeep Kumar, (2020), "Effect of Radius of Curvature on the Seismic Response of an Isolated Curved Bridge", Second ASCE India Conference on "Challenges of Resilient and Sustainable Infrastructure Development in Emerging Economies", Kolkata, India.
12. Sinha, Binod and Ghosh, Goutam (2020), "Estimation of Response Reduction Factor for RCC Buildings based on Performance Based Seismic Design", Second ASCE India Conference on "Challenges of Resilient and Sustainable Infrastructure Development in Emerging Economies", Kolkata, India.
13. Prasanth S. and Ghosh Goutam (2019) "Seismic Vulnerability Assessment of a Reinforced Concrete Building Located in India", Proc. International Conference INFRACON 2019, Pune, India, pp.13.
14. Hemkar, Kshama, Mishra, Laxmi Kant and Ghosh, Goutam (2019) "Ductility Assessment of an RC Section", International Conference on Advanced Research and Innovations in Civil Engineering (ARICE), Kochi, pp. 69.
15. Gupta Praveen Kumar and Ghosh Goutam (2017) "Seismic Response of Isolated Curved Bridge Considering Bidirectional Effects", IASTEM International Conference, Madrid Spain, 1-3.
16. Saxena S., Singh S. S., Singh S., Kumar A., Gupta P. K. and Ghosh G. (2017) "Effect of Soil Flexibility on the Seismic Performance of RCC Buildings", 3rd Indian Conference on Applied Mechanics (INAM 2017), MNNIT Allahabad, pp. 271.
17. Hemkar, Kshama, Mishra, Laxmi Kant and Ghosh, Goutam (2017) "Ductility Evaluation for an RCC Section with Variation in Engineering Properties of Materials", 3rd Indian Conference on Applied Mechanics (INAM 2017), MNNIT Allahabad, pp. 467.
18. Singh Tripti, Ghosh Goutam and Pallav Kumar (2017) "Determination of Stress Behavior of Masonry Wall due to Variation in Elastic Properties of Material", 3rd Indian Conference on Applied Mechanics (INAM 2017), MNNIT Allahabad, pp. 457.
19. Gupta, Praveen Kumar and Ghosh, Goutam (2016) "Effects of Bidirectional Loading on High Damping Rubber Bearing of a Curved Bridge" National Conference on Technical advancements in Civil Engineering", Lovely Professional University, Punjab, India, 76-82.

20. Hemkar, Kshama, Mishra, Laxmi Kant and Ghosh, Goutam (2016) "A Review: Retrofitting Techniques for RC building" National Conference on Technical advancements in Civil Engineering", Lovely Professional University, Punjab, India.
21. Awasthi, Jitendra, Ghosh, Goutam and Mehta, Pradeep Kumar (2016), "Pushover Analysis of a RC Bridge", International Journal of Innovative Research in Science and Engineering, Volume 2, Issue 5, pp.480-488, May 2016. ISSN: 2454-9665.
22. Awasthi, Jitendra, Ghosh, Goutam and Mehta, Pradeep Kumar (2016), "Performance- Based Seismic Design of a Building", International Journal of Advanced Technology in Engineering and Science, Volume 4, Issue 4, pp.74-83, April 2016. ISSN: 2348-7550.
23. Gupta, Praveen Kumar and Ghosh, Goutam (2015) "Relative Performance of High Damping Rubber Bearing and Friction Pendulum System for a Curved Bridge", All India Seminar on 'Innovative Building Materials and Technology for Sustainable Construction', Lucknow, India, 79-83.
24. Gupta, Praveen Kumar and Ghosh, Goutam (2014) "Choice of Isolation System for a Curved Bridge", Proc. International Conference on Recent Trends and Challenges in Civil Engineering, MNNIT Allahabad, India, pp.413-417.
25. Gupta, Praveen Kumar and Ghosh, Goutam (2014) "Efficacy of High Damping Rubber Bearing of a Curved Bridge", 15th Symposium on Earthquake Engineering- 15thSEE- 2014, I.I.T. Roorkee, India, pp.704-709.
26. Gupta, Praveen Kumar and Ghosh, Goutam (2014) "Efficacy of Friction Pendulum System for a Curved Bridge", Structural Engineering Convention (SEC), I.I.T. Delhi, India, pp. 3690-3701.
27. Gupta, Praveen Kumar and Ghosh, Goutam (2014) "Response of a Curved Bridge with Elastomer-Based and Friction-Based Bearings", Proc. International Conference on Advances in Engineering and Technology, Roorkee, India, 450-454.
28. Gupta, Praveen Kumar and Ghosh, Goutam (2014) "Seismic Performance of Curved Bridge with High Damping Rubber Bearing and Friction Pendulum System", Proc. International Conference on Ingenious Technologies and Sustainable Developments in Civil Engineering- Kanyakumari, India, 137-140.
29. Ghosh, Goutam (2014) "Seismic Design of Bridge Considering Performance Based Philosophy", Proc. International Conference on Civil Engineering, (VVIT Bangalore), 21-23 August, pp. 195-201.
30. Meena, Naveen Kumar, Ghosh, Goutam & Pal, Priyaranjan (2014) "Performance-based Seismic Design of Buildings with Shear Wall", Proc. International Conference on Recent Trends and Challenges in Civil Engineering, (MNNIT Allahabad), 12-14 December, pp. 32.
31. Ghosh, G., Kumar, A., Verma N. K. and Rai, H. (2012) "Seismic Response of a Curved Bridge with Isolation Bearings", 15th World Conference on Earthquake Engineering, September 24-28, Lisbon, Portugal.
32. Kiran, Asha, Ghosh, Goutam and Gupta, Yogendra (2012) "Application of Pushover Analysis Methods for Building Structures", ISET Golden Jubilee Symposium, October 20-21, IIT Roorkee, India.
33. Ghosh, Goutam and Gupta, Yogendra (2010) "Force Based Design and Performance Based Design of A Bridge", Proc. International Conference on Design & Construction of Urban Transport Structures, April 23-25, Auditorium of Rail Nilayam, Secunderabad, India.
34. Ghosh, Goutam and Gupta, Yogendra (2009) "Seismic Response of Building Structure with Various Pushover Methods", International Conference on Advances in Concrete, Structural and Geotechnical Engineering, October 25-27, BITs Pilani, Rajasthan, India.
35. Ghosh, Goutam and Singh, Yogendra (2009) "Seismic Behaviour of An Isolated Bridge with Directional Effects", ASCE Technical Council on Lifeline Earthquake Engineering (TCLEE) - 2009, June 28- July 1, Oakland, California, P. 13.
36. Ghosh, Goutam, Singh, Yogendra and Thakkar, Shashi Kant (2009) "Effect of Soil Amplification on the Seismic Response of Bridge Structures", 9th International Conference on Vibration Problems, January 19- 22, IIT Kharagpur.

37. Ghosh, Goutam and Gupta, Yogendra Kumar (2009) "Seismic Response of Building Structure with Various Pushover Methods", International Conference on Advances in Concrete, Structural and Geotechnical Engineering (ACSGE-2009), October 25-27, 2009, Birla Institute of Technology and Science, Pilani, Rajasthan.
38. Ghosh, Goutam, Singh, Yogendra and Thakkar, Shashi Kant (2008) "A Comparative Study of Thermal and Seismic Behaviour of a Bridge with Traditional and Isolation Bearings", 14th World Conference on Earthquake Engineering, October 12-17, 2008, Beijing, China.
39. Ghosh, Goutam, Singh, Yogendra and Thakkar, Shashi Kant (2008) "Thermal and Seismic Behaviour of a Bridge with Traditional and Isolation Bearings", Structural Engineering Convention, 18-20 December, SERC, Chennai.
40. Ghosh, Goutam, Singh, Yogendra and Thakkar, Shashi Kant (2008) "A Review of Different Methods for Health Monitoring of Structures ", Challenges and Applications of Mathematical Modeling Techniques in Building Science and Technology (CAM2TBST), 7-8 February, Central Building Research Institute, Roorkee, pp. 160-170.
41. Ghosh, Goutam, Singh, Yogendra and Thakkar, Shashi Kant (2007) "Seismic Response of a Pier-well System", International Conference on Civil Engineering in the New Millennium (CENeM), 11-14 January, Bengal Engineering and Science University, Howrah, India.
42. Ghosh, Goutam, Singh, Yogendra and Thakkar, Shashi Kant (2006) "Thermal and Seismic Response of a Continuous Bridge with Different Types of Bearings", 13th Symposium on Earthquake Engineering (13SEE), 18-20 December, IIT Roorkee, India.
43. Ghosh, Goutam, Singh, Yogendra and Thakkar, Shashi Kant (2006) "Behaviour of Well Foundation under Earthquake Generated Forces", Workshop on Deep Foundations (Well/Pile) for Bridges-Optimal Solutions, 29-30 November, Central Road Research Institute (CRRI), New Delhi, India.
44. Ghosh, Goutam, Singh, Yogendra and Thakkar, Shashi Kant (2006) "Structural Damage Identification and Health Monitoring of Bridges", National Conference on Advances in Bridge Engineering, 24-25 March, Department of Civil Engineering, IIT Roorkee, pp. 11-30.
45. Ghosh, Goutam, Singh, Yogendra and Thakkar, Shashi Kant (2005) "Application of Shape Memory Alloys in Controlling Earthquake Damage to Bridges", Structural Engineering Convention-2005, 14-16 December, IISC Bangalore, pp. 405.
46. Ghosh, Goutam, Singh, Yogendra and Thakkar, Shashi Kant (2005) "Techniques for Health Monitoring of Bridges: A Review", National Symposium on Structural Dynamics, Random Vibrations and Earthquake Engineering, 21-22 July, IISC Bangalore, pp. 115-123.
47. Ghosh, Goutam, Singh, Yogendra and Thakkar, Shashi Kant (2004) "Effect of Scour Depth on the Seismic Response of a Hammer-Head Bridge", Third International Conference on Theoretical, Applied, Computational and Experimental Mechanics, 28-30 December, Kharagpur, paper no. 104.
48. Ghosh, Goutam, Singh, Yogendra and Thakkar, Shashi Kant (2004) "Effect of Soil Springs Characteristics on Seismic Response of Bridges", 9th International Conference on Current Trends in Aqueducts, Road, Rail and Marine Bridges, 20-22 December, Hyderabad, Vol.1, pp. 109-123.

Book/Proceedings

1. Edited the Proceedings of RTCCE-2014, an International Conference on Recent Trends and Challenges in Civil Engineering held at MNNIT Allahabad, Prayagraj, India, pp. 1-41, Published by Harileela Publication, Stanley Road, Allahabad, ISBN: 978-938-0-63516-3.

Book Chapter

1. Prasanth, S and Goutam Ghosh (2023). Implementation of Framework for Seismic Resilience Assessment of a R.C. Building, Seismic Hazards and Risk, Lecture Notes in Civil Engineering, Vol. 116, Springer, Singapore.
2. Hemkar, Kshama, Mishra, Laxmi Kant, Ghosh, Goutam (2021). Ductility Assessment of an RC Section, Advances in Civil Engineering, Lecture Notes in Civil Engineering, Vol. 83. Springer, Singapore.
3. Prasanth S and Ghosh Goutam (2021). "Implementation of Framework for Seismic Resilience Assessment of a R.C. Building", In: Sitharam T.G., Kolathayar S., Sharma M.L. (eds) Seismic Hazards and Risk, Lecture Notes in Civil Engineering, Vol 116. Springer, Singapore.
4. S. Prasanth and Goutam Ghosh (2021). "Resilience-Based Design of Buildings", Reliability-Based Analysis and Design of Structures and Infrastructure (1st edition), CRC Press, Taylor & Francis, pp.79-88.
5. Prasanth S and Goutam Ghosh (2020). "Assessment of Seismic Vulnerability of a Reinforced Concrete Building Located in India", Emerging Trends in Engineering Research and Technology, Book Publisher International, India, Vol. 5(12).
6. Praveen Kumar Gupta and Goutam Ghosh (2015). "Efficacy of Friction Pendulum System for a Curved Bridge", Bloomsbury Publishing India Pvt Ltd., V. Matsagar (ed.), Modeling, Simulation and Analysis, pp. 3690-3701.