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Publications

International/National Journals:

1. Sanskriti Pandey, Shalinee Shukla, and Divya Kumar (2026), "An Intelligent Real-Time Vehicle Tracking Approach for Safety Enhancement and Accident Prevention due to Lane Indiscipline." International Journal of Reliability and Safety, Inderscience Publishers. (Scopus) (Accepted)
2. Priyanka Mishra, Shalinee Shukla and Kumar Venkatesh (2026), "A hybrid model for predicting the subgrade improvement using waste materials (sugarcane bagasse ash & calcium lignosulfonate)", Innovative Infrastructure Solutions (Springer), Vol. 11, Article No.211. April 2026 <https://doi.org/10.1007/s41062-026-02597-y> (ESCI)
3. Sanskriti Pandey, Shalinee Shukla, and Divya Kumar (2026), "Automated Detection of Road Surface Anomalies Using Image Processing Techniques" Life Cycle Reliability and Safety Engineering, Springer. May 2026 <https://doi.org/10.1007/s41872-026-00416-y> (Scopus)
4. Pushpanjali Verma, Shalinee Shukla, and Priyaranjan Pal (2025) "A comprehensive review on dispersion techniques of nano-SiO₂ in concrete matrix ", 10, 304, June 2025, Innovative Infrastructure Solutions (Springer), <https://doi.org/10.1007/s41062-025-02098-4> (ESCI)
5. Pushpanjali Verma, Shalinee Shukla, and Priyaranjan Pal (2025) "Potential Application of Nano-silica in Concrete Pavement: A Bibliographic Analysis and Comprehensive Review", Volume 29, March 2025, 101079, Materials Today Sustainability (Elsevier), <https://doi.org/10.1016/j.mtsust.2025.101079>. (SCIE)
6. Tanu Singh and Shalinee Shukla (2024), "Estimation of Equivalency Units of Vehicles on Urban Roads for Heterogenous Traffic" IOP Conference Series: Earth and Environmental Science, Volume 1326. <https://iopscience.iop.org/article/10.1088/1755-1315/1326/1/012109> (Scopus)
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8. Pradeep Kumar, Shalinee Shukla (2023), "Utilization of steel slag waste as construction material: A review", Materials Today Proceedings, Vol. 78, Part 1, 2023, Pages 145-152. (Scopus) <https://doi.org/10.1016/j.matpr.2023.01.015>
9. Shalinee Shukla and Ayush Mittal (2022), "Effect of jute fibre reinforcement on strength, thickness and cost of low-volume rural roads", Materials Today Proceedings, Vol. 62, Part 12, Pages 6749-6754. (Scopus) <https://doi.org/10.1016/j.matpr.2022.04.848>
10. Priyanka Mishra, Shalinee Shukla and Ayush Mittal (2022), "Stabilization of subgrade with expansive soil using agricultural and industrial By-products: A review", Materials Today Proceedings, Vol. 65, Pages 1418-1424. (Scopus) <https://doi.org/10.1016/j.matpr.2022.04.397>
11. Shivani Shukla, Shalinee Shukla, Ayush Mittal and Tanu Singh (2022), "A review on use of coir fibre in road construction", Materials Today Proceedings, Vol. 65, Pages 1839-1845. (Scopus) <https://doi.org/10.1016/j.matpr.2022.05.017>
12. Pradeep Kumar, Shalinee Shukla (2022), "Flexible pavement construction using different waste materials: A review", Materials Today Proceedings, Vol. 65, Part 2, 2022, Pages 1697-1702. (Scopus) <https://doi.org/10.1016/j.matpr.2022.04.713>

13. Ayush Mittal and Shalinee Shukla (2020), "Effect of Geogrid Reinforcement on Strength, Thickness and Cost of Low-volume Rural Roads", Jordan Journal of Civil Engineering, Vol. 14, No.4. Pages 587-597. Impact factor =1.1 (ESCI)
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14. Ayush Mittal and Shalinee Shukla (2020), "Effect of Random Inclusion of Kenaf Fibres on Strength Behaviour of Poor Subgrade Soils", Jordan Journal of Civil Engineering, Vol. 14, No.1., Pages 43-56. Impact factor =1.1 (ESCI)
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15. Ayush Mittal and Shalinee Shukla (2019), "Strength Improvement of Poor Subgrade Soil Reinforced with Polyester Biaxial Geogrid", Jordan Journal of Civil Engineering, Vol.13, No.2, pp 214-225. Impact factor =1.1 (ESCI)
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16. Ayush Mittal and Shalinee Shukla (2019), "Effect of Geosynthetic Reinforcement on Strength Behaviour of Weak Subgrade Soil", Materials Science Forum, Vol. 969, pp 225-230, ISSN: 0255-5476, Trans Tech Publications Ltd, Switzerland.
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17. Ayush Mittal and Shalinee Shukla (2019), "Remediation Technologies - A Comparative Study", Materials Science Forum, Vol. 969, pp 697-702, ISSN: 0255-5476, Trans Tech Publications Ltd, Switzerland. <https://doi.org/10.4028/www.scientific.net/MSF.969.697>
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19. P. Pal, S. Shukla and A.K. Ranjan (2017), "Performance of pervious concrete with recycled concrete aggregate", The Indian Concrete Journal January 2017, Vol.91 (1), Pages 86-92, ISSN 00194565. (Scopus)
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20. Shalinee Shukla and Hina Zia (2016), "Energy Efficiency in India: Policies and Their Impacts", Energy Sources, Part B: Economics, Planning and Policy, Taylor & Francis, Volume 11(10), Pages 982-989. Impact factor =2. (SCIE) <https://doi.org/10.1080/15567249.2013.799245>
21. Rishi Srivastava, Shalinee Shukla, R.P. Tiwari and Ayush Mittal (2016) "Effect of Woven Polyester Geotextile on the Strength of Black Cotton Soil", International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET), 5(7), July 2016, pp. 12402-12408.
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23. Shalinee Shukla and Satish Chandra (2011), "Simulation of mixed traffic flow on Four Lane Divided Highways", Indian Highways, Journal of Indian Roads Congress, 72(1), pp. 55-71.
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24. Shalinee Shukla and Satish Chandra (2010) "Placement characteristic of Mixed Traffic on Four Lane Divided Highways", Indian Highways, Journal of Indian Roads Congress, 38(8), pp. 43-52.
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25. Shalinee Shukla, H. Zia and V. Devadas (2008) "Assessing informal waste recycling in Kanpur City, India", Management of Environmental Quality: An International Journal, ISSN: 1477-7835, 19(5), pp. 597-612. (ESCI) <https://doi.org/10.1108/14777830810894265>

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International Conferences & National Conferences:

1. Princy Yadav, Pradeep Kumar and Shalinee Shukla (2026), “A Study on the Utilization of Recycled Concrete Aggregate in Dense Bituminous Macadam Mixes for Flexible Pavements” Paper ID: TGSMART131, International Conference on Transportation Geotechnics & Sustainable Materials for Advanced Resilient Infrastructure (TG-SMART 2026), 08–10 October 2026 at Integral University, Lucknow, India. (Accepted)
2. Sanskriti Pandey, Rhishikesh Bansode, Harsh Kumar Meena, Shalinee Shukla, Divya Kumar (2026), “Evaluating YOLOv8 Models for Real-Time Traffic Analysis: A Comparative Approach” Paper ID: 93, 12th International Conference on Transportation Systems Engineering & Management (CTSEM 2026), 17-18 July, 2026, Mahindra University, Hyderabad, India.
3. Ankit Kumar, Dilip Yadav, Shalinee Shukla and Snehal K (2026), “A Sustainable Pavement Quality Concrete Using Recycled Concrete Aggregates and Micro Silica: A Review”, International Conference on Sustainable Practices and Materials in Civil Engineering: Proceedings of the SPMCE 2026 (SPMCE 2026) 28-30 May 2026 (In hybrid mode) Department of Civil Engineering National Institute of Technology Jamshedpur, Jamshedpur, Jharkhand, India. (Accepted for publication in Volume 3 Lecture Notes in Civil Engineering).
4. Pushpanjali Verma, Dr. Shalinee Shukla and Dr. Priyaranjan Pal, “Low-Carbon Concrete for Sustainable Infrastructure using Nano-silica and Rice husk ash, “International Conference on Sustainable Practices and Materials in Civil Engineering: Proceedings of the SPMCE 2026 (SPMCE 2026) 28-30 May 2026 (In hybrid mode) Department of Civil Engineering National Institute of Technology Jamshedpur, Jamshedpur, Jharkhand, India. (Accepted for publication in Volume 3 Lecture Notes in Civil Engineering).
5. Dilip Yadav, Kumar Kamal Kishor and Shalinee Shukla, “Utilization of Stone Dust and Copper Slag Mixture as Sustainable Fine Aggregate in Mortar”, International Conference on Ground Engineering & Sustainable Infrastructure (ICGESI 2026) 3-4 April, 2026, NIT Hamirpur, India
6. Ankit Kumar, Dilip Yadav, Shalinee Shukla and Snehal K, “A Sustainable Pavement Quality Concrete Using Recycled Concrete Aggregate and Micro Silica”, International Conference on Ground Engineering & Sustainable Infrastructure (ICGESI 2026) 3-4 April, 2026, NIT Hamirpur, India
7. Dilip Yadav, Shalinee Shukla and Kumar Kamal Kishor, “Stabilization of Weak Expansive Soil Using Copper Slag: A Review” Indian Geotechnical Conference 2025 (IGC-2025), 18th to 20th December 2025, Dr. B. R. Ambedkar National Institute of Technology Jalandhar, Punjab
8. Pushpanjali Verma, Dr. Shalinee Shukla and Dr. Priyaranjan Pal, “Impact of Nano-silica on Physical and Mechanical Properties of Pavement Quality Concrete”, The 8th Conference of Transportation Research Group of India, IIT Guwahati, Assam, India (CTRG 2025), 17-20 December 2025
9. Somesh Urmaliya and Shalinee Shukla, “A Study to Estimate the Effects of Pedestrian Volume as a Side Friction Element”, All India Conference on Advanced Civil Engineering Practices for Sustainable Infrastructure Development (ACED–2025), 28th to 29th Nov 2025, The Institution of Engineer's (India), India
10. Kumar Kamal Kishor, Shalinee Shukla, Priyaranjan Pal and Dilip Yadav, “Study the Effects of Recycled Aggregate in Roller Compacted Concrete Pavement”, 3rd International Conference Transportation Infrastructure Projects: Conception to Execution (TIPCE 2025) September 18- 21, 2025

11. Gaurav Vishvakarma, Dr. Shaline Shukla, Pushpanjali Verma, "Micro-Silica – Modified Concrete Pavement: A Path Toward Sustainable and Durable Construction", 11th International Conference on Transportation Systems Engineering & Management (CTSEM 2025) July 4 - 5, 2025.
12. Satya Prakash, Shaline Shukla & RD Gupta, "UAV-Based Solutions for Traffic Flow Analysis", 11th Conference on Transportation Systems Engineering and Management (CTSEM-2025). July 4 - 5, 2025.
13. Gaurav Vishvakarma, Dr. Shaline Shukla, Pushpanjali Verma and Dr. Priyaranjan Pal," Comparison of the Impact of Nano and Micro Silica on Concrete Pavement Properties: A review", 1st International Conference on Advances in Structural and Geotechnical Engineering, (ASAGE'25), 6-8 February 2025, IIT Patna, India
14. Bhanu Priya, Dr. Shaline Shukla, Prof. Sadhana Sachan, and Pushpanjali Verma, "Use of Glass Waste Material in Pervious Concrete Pavement Structure", International Conference on Advances in Structural and Geotechnical Engineering (ASAGE'25), 6-8 February 2025, IIT Patna, India
15. Dilip Yadav, Kumar Kamal Kishor and Shaline Shukla, "Foam Concrete as New Construction Approach in Civil Engineering Works", International Conference on Advances in Structural and Geotechnical Engineering (ASAGE'25), 6-8 February 2025, IIT Patna, India
16. Pushpanjali Verma, Dr. Shaline Shukla and Dr. Priyaranjan Pal, "Comparative study on Stabilization of Weak soil using Bauxite residue and Nanomaterial for Pavement subgrade Application", The 14th Structural Engineering Convention (An International Conference), Department of Civil Engineering, NIT Tiruchirappalli, Trichy, Kerala, 12th-14th December, 2024
17. Tanu Singh and Shaline Shukla (2023), "Estimation of Equivalency Units of Vehicles on Urban Roads for Heterogenous Traffic", IOP Conference Series: Earth and Environmental Science, Volume 1326, International Conference on Creative and Innovative Solutions in Civil Engineering (CISCE-2023) 11/08/2023 - 12/08/2023 Jaipur, India.
18. Pradeep Kumar and Shaline Shukla (2022), "Ferrochrome Slag Aggregate as a Sustainable Pavement Construction Material: A Review", International conference on 'Recent Development in Civil Engineering (RDC-2022), 20-21 October, 2022
19. Pradeep Kumar and Shaline Shukla (2022)," Utilization of steel slag waste as construction material: A Review", Chem-Conflux22: International Conference on Technological Interventions for Sustainability MNNIT Allahabad Prayagraj, India, April 14-16, 2022 ISSN:Online ISSN: 2214-7853 Vol. 78 (1) Page No. 145-152
20. Shaline Shukla and Ayush Mittal (2022), "Effect of Jute Fibre Reinforcement on Strength, Thickness and Cost of Low volume Rural Roads", International Conference on Advances in Materials, Mechanics, Mechatronics & Manufacturing (IC4M 2022), 09th – 10th April 2022, India (Virtual Mode) ISSN:Online ISSN: 2214-7853 Volume: Vol.62(12) Page No. 6749-6754
21. Priyanka Mishra, Shaline Shukla and Ayush Mittal (2021)," Stabilization of subgrade with expansive soil using agricultural and industrial By-products: A review", International Conference on Advances in Construction Materials and Structures (ICCMS-2021), 14th - 19th December 2021, China ISSN:Online ISSN: 2214-7853, Vol 65(2), Page No. 1418-1424
22. Pradeep Kumar and Shaline Shukla (2021), "Flexible pavement construction using different waste materials: A Review", International conference on Advances in Construction Materials and Structures (ICCMS-2021), 14th - 19th December 2021, China (Virtual Mode) ISSN:Online ISSN: 2214-7853, Vol. 65 (2) Page No. 1697-1702
23. Shivani Shukla, Shaline Shukla, Ayush Mittal and Tanu Singh (2021), "Review on Use of Coir Fibre in Road Construction", International conference on Advances in Construction Materials and Structures (ICCMS-2021), 14th - 19th December 2021, China (Virtual Mode) ISSN:Online ISSN: 2214-7853 Volume: Vol. 65 (2) Page No. 1839-1845

24. A. Suresh and Shalinee Shukla, "Improving stability of bituminous concrete mixes by replacing cement with waste glass powder as mineral filler", 2nd ASCE Conference in India on Challenges of Resilient and Sustainable Infrastructure Development in Emerging Economies (CRSIDE2020) Kolkata, India, March 02-04, 2020.
25. Pradeep Kumar and Shalinee Shukla, "Reclaiming Properties of Bituminous Concrete Pavements using Cold Mix Design Technology", 2nd ASCE Conference in India on Challenges of Resilient and Sustainable Infrastructure Development in Emerging Economies (CRSIDE2020) Kolkata, India, March 02-04, 2020.
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27. Ayush Mittal, Shalinee Shukla, Abhishek Pratap Singh, Sumit Rawat, Vedansh Singh Chandel and Rahul Kumar Pal, "Stabilization of Black Cotton Soil Using Pet Bottles Scrap", 3rd International Conference on Innovative Technologies for Clean and Sustainable Development (ITCSD2020) Chandigarh, India, February 19–21, 2020.
28. Ayush Mittal, Shalinee Shukla, Shivam Verma, Sandeep Kumar and Vishal "Stabilization of Weak Subgrade Soil Using Waste Paper Sludge Ash", 3rd International Conference on Innovative Technologies for Clean and Sustainable Development (ITCSD2020) Chandigarh, India, February 19–21, 2020.
29. Shalinee Shukla, Ayush Mittal, R.P. Tiwari, and Kshma Gupta, "Application of Non-Woven Polyester Geotextile for Soil Improvement in Pavements." Indian Geotechnical Conference (IGC-2019), December 16-21, 2019, SVNIT, Surat, Gujarat India.
30. Sunit kumar, Shalinee Shukla, Ayush Mittal, "Improvement in soil subgrade using natural fibre (kenaf and coir fibre)", Indian Geotechnical Conference (IGC-2019), December 16-21, 2019, SVNIT, Surat, Gujarat India.
31. Ayush Mittal, Shalinee Shukla, and Sonu Verma, "Review on Suitability of Rice Husk Ash as Soil Stabilizer", Indian Geotechnical Conference (IGC-2019), December 16-21, 2019, SVNIT, Surat, Gujarat India.
32. Ayush Mittal and Shalinee Shukla, "Soil Subgrade Stabilization Using Non-Woven Polypropylene Geotextile", International Conference on Recent Trends and Innovations in Civil Engineering (ICRTICE-2019), September 26-28, 2019, Department of Civil Engineering Medi-Caps University, Indore ICRTICE-2019.
33. Ayush Mittal and Shalinee Shukla, "Effect of Geosynthetic Reinforcement on Strength Behaviour of Weak Subgrade Soil", International Conference on Recent Advances in Materials and Manufacturing Technologies (ICRAMMT-2018), 19-20 November 2018, MLRITM Hyderabad, India.
34. Ayush Mittal and Shalinee Shukla, "Remediation Technologies – A Comparative Study", International Conference on Recent Advances in Materials and Manufacturing Technologies (ICRAMMT-2018), 19-20 November 2018, MLRITM Hyderabad, India.
35. Shalinee Shukla, R.P. Tiwari, Vaishali Rajbhar and Ayush Mittal. "Use of Jute Geotextile in Strength Enhancement of Soft Subgrade Soil", International Symposium on Geotechnics of Transportation Infrastructure (ISGTI – 2018), 07-08 April 2018, IIT Delhi, India, pp. 526-531.
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37. Ravi Prakash Gupta, Shalinee Shukla, Ayush Mittal and Nitesh Kumar Yadav. "Use of Waste Plastics in PMGSY Roads", National Conference on Road and Transport (NCORT – 2017), 14-15 October 2017, IIT Roorkee, India.

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39. Ayush Mittal and Shalinee Shukla. "Effect of Non-Woven Geotextile on the Strength Behaviour of Weak Subgrade Soil", Conference on Numerical Modeling in Geomechanics, 03-04 March 2017, IIT Roorkee, India, pp. 9-14.
40. Ayush Mittal and Shalinee Shukla. "Strength Improvement of Weak Subgrade Soil Reinforced with Geogrid", International Geotechnical Engineering Conference on Sustainability in Geotechnical Engineering Practices and Related Urban Issues, 23-24 September 2016, IIT Bombay, Mumbai, India, pp. 1-3.
41. Rishi Srivastava, Shalinee Shukla, R.P. Tiwari and Ayush Mittal. "Effect of Nonwoven Synthetic Geotextile on CBR Value of Clayey Soil", 10th International Symposium on Lowland Technology, 15-17 September 2016, NIT Surathkal, Mangalore, India, pp. 1-5.
42. Ayush Mittal and Shalinee Shukla. "Effect of Fiber Reinforcement on the Strength Behaviour of Poor Subgrade Soil", National Conference on Fifteen Years of PMGSY (FYPMGSY), 6-7 August 2016, IIT Roorkee, India, pp. 1-5.
43. Ayush Mittal and Shalinee Shukla, "Strength Improvement of Poor Subgrade Soil Reinforced with Non-woven Geotextile Sheet", International Conference on Soil and Environment, 22-23 July 2016, Indian Institute of Science, Bangalore, India, pp. 1-8.
44. Ayush Mittal and Shalinee Shukla, "Geotextile: An Overview", 50th Indian Geotechnical Conference (IGC-2015), 17-19 December 2015, Government College of Engineering, Pune, India, pp. 1-11.
45. Shalinee Shukla and Satish Chandra. "Overtaking Behavior on Divided Highways Under Mixed Traffic Conditions", Procedia - Social and Behavioral Sciences, The 8th International Conference on Traffic & Transportation Studies, 2012, Changsha, China, 1-3 August 2012, Vol.43 (313 – 322) ISSN: 1877-0428
46. Shalinee Shukla and Satish Chandra. "Speed Characteristics on Four-lane Divided Highways for Mixed Traffic Conditions", 23rd ARRB Conference – Research Partnering with Practitioners, Adelaide Australia, 30 July- 1, August, 2008. ISSN: 0572-1431
47. Manoranjan Parida, S. S. Jain, Shalinee Shukla, and Ajay Kumar Singh, "Application of Artificial Neural Network for Traffic Noise Prediction", Paper published in International Conference on Transportation Systems Planning and Operation TRANSPO-2004, held in Chennai, India, 18-20 Feb., 2004.

Book Chapters:

1. Prakash, S., Shukla, S., Gupta, R.D. (2026). UAV-Based Solutions for Traffic Flow Analysis. In: Bivina, G.R., Das, P., Krishnamurthy, K., Mathew, S. (eds) *Advances in Transportation Systems and Pavement Engineering: Challenges and Solutions - Vol 3*. CTSEM 2025. Lecture Notes in Civil Engineering, vol 850. Springer, Singapore.
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2. Shukla, Shivani., Shukla, Shalinee (2024). A Study on Subgrade Stabilization Using Locally Available Natural Materials. In: Nehdi, M., Rahman, R.A., Davis, R.P., Antony, J., Kavitha, P.E., Jawahar Saud, S. (eds) *Proceedings of SECON'24*. SECON 2024. Lecture Notes in Civil Engineering, vol 607. Springer, Cham.
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3. Book Title: Proceedings of the Indian Geotechnical Conference 2019 pp. 375-383
Chapter Title: Review on Suitability of Rice Husk Ash as Soil Stabilizer.
Chapter No: Lecture Notes in Civil Engineering Book Series (LNCE, volume 136)
Authors: Ayush Mittal, Shalinee Shukla, and Sonu Verma
Publishers: Springer, Scientific Publishing Services (P) Ltd. In: Patel S., Solanki C.H., Reddy K.R., Shukla S.K. (eds) Singapore.
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4. Book Title: Proceedings of the Indian Geotechnical Conference 2019 pp. 365-374
Chapter Title: Application of Non-woven Polyester Geotextile for Soil Improvement in Pavements.
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Authors: Shalinee Shukla, Ayush Mittal, R.P. Tiwari and Kshma Gupta
Publishers: Springer, Scientific Publishing Services (P) Ltd. In: Patel S., Solanki C.H., Reddy K.R., Shukla S.K. (eds) Singapore.
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5. Book Title: Proceedings of the Indian Geotechnical Conference 2019 pp. 211-218
Chapter Title: Improvement in Soil Subgrade Using Natural Fibre (Kenaf and Coir Fibre).
Chapter No: Lecture Notes in Civil Engineering Book Series (LNCE, volume 136)
Authors: Shalinee Shukla, Ayush Mittal and Sunit Kumar
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6. Book Title: Recent Trends in Civil Engineering pp. 501-511
Chapter Title: Soil Subgrade Stabilization Using Non-woven Polypropylene Geotextile.
Chapter No: Lecture Notes in Civil Engineering Book Series (LNCE, volume 77)
Authors: Ayush Mittal and Shalinee Shukla Publishers: Springer, Scientific Publishing Services (P) Ltd. In: Pathak K.K., Bandara J.M.S.J., Agrawal R. (eds) Singapore.
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7. Book Title: Geotechnics for Transportation Infrastructure pp. 295-302
Chapter Title: Use of Jute Geotextile in Strength Enhancement of Soft Subgrade Soil.
Chapter No: Lecture Notes in Civil Engineering Book Series (LNCE, volume 29)
Authors: Shalinee Shukla, R.P. Tiwari, Vaishali Rajbhar and Ayush Mittal
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