

1. Record Nr.	UNINA9911015857003321
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Titolo	Proceedings of the 3rd International Conference on Advances in Concrete, Structural, and Geotechnical Engineering—Volume 1 : ACSGE 2024, BITS Pilani, India // edited by Shamsher Bahadur Singh, Muthukumar Gopalarathnam, Nishant Roy
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2025
ISBN	981-9607-46-9
Edizione	[1st ed. 2025.]
Descrizione fisica	1 online resource (545 pages)
Collana	Springer Proceedings in Materials, , 2662-317X ; ; 29
Altri autori (Persone)	GopalarathnamMuthukumar RoyNishant
Disciplina	624.15
Soggetti	Engineering geology Geotechnical engineering Concrete Geoengineering Geotechnical Engineering and Applied Earth Sciences
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	1. A Comprehensive Review On 3d Printing Of Concrete Materials, Methods And Mechanical Properties -- 2. A Study On The Influence Of Nanomaterials In Cement Concrete At Elevated Temperatures -- 3. A Succinct Review On The Use Of Phase Change Material (Pcm) For Sustainable Structures And Pavements -- 4. An Adaptive Neuro Fuzzy Inference System Based Modeling For Expanded Clay Based Light Weight Concrete With Micro Reinforcement -- 5. Assessment Of Compressive Strength On Red Mud Concrete Using Rebound Hammer Test -- 6. Development Of "Polycrete" From Waste Polymers A Green Chemistry Approach -- 7. Development Of Light Weight Geopolymer Interlocking Bricks -- 8. Effect Of Alccofine And Silica Fume On Mechanical Properties And Flexural Behaviour Of High Strength Concrete -- 9. Effect Of Nano Silica On Different Properties Of Concrete Mix And Correlation Between Its Properties -- 10. Effective Use Of Waste Groundnut Shells As A Partial Cement Powder In The Production Of Greener Cementitious Matrix.

This book consists of selected papers presented at the 3rd International Conference on Advances in Concrete, Structural, and Geotechnical Engineering (ACSGE 2024) held at BITS, Pilani, India. The papers represent the latest research work in the fields of advanced composite materials, advanced computational techniques for structures, applications of nanotechnology in civil engineering, bridge engineering, composite structures, concrete technology, the fatigue life of structures, fire-resistant structures, functionally graded materials and structures, geotechnical processes, ground improvement techniques, offshore structures, performance-based design of structures, pre-cast pre-stressed concrete structures, seismic design, and construction, soil structure interaction, structural health assessment and rehabilitation, sustainability of construction, design, and management. The papers are presented by an international pool of academics, research scientists, and industrial experts and therefore cater to the global audience from the related fields. This book is part of a 3-volume series of these conference proceedings, and it represents Volume 1 in the series.
