1. Record Nr. UNINA9910350305703321 Sustainable Construction and Building Materials [[electronic resource]]: **Titolo** Select Proceedings of ICSCBM 2018 / / edited by Bibhuti Bhusan Das. Narayanan Neithalath Singapore:,: Springer Singapore:,: Imprint: Springer,, 2019 Pubbl/distr/stampa **ISBN** 981-13-3317-3 Edizione [1st ed. 2019.] Descrizione fisica 1 online resource (906 pages): illustrations Lecture Notes in Civil Engineering, , 2366-2557;; 25 Collana Disciplina 691.0286 Soggetti **Building construction** Sustainable architecture Engineering **Building Materials** Sustainable Architecture/Green Buildings **Construction Management Building Construction and Design** Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Nota di contenuto Experimental Study on Self Compacting Concrete with Replacement Material's -- Performance of Nano-Sio2 and Nano-Zno2 on

Material's -- Performance of Nano-Sio2 and Nano-Zno2 on
Compressive Strength and Microstructure Characteristics of Cement
Mortar -- Fly Ash Utilization In Lightweight Aggregates For Sustainable
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Green Concrete -- Interference of Two Shallow Square Footings on
Geogrid Reinforced Crusher Dust -- Use of Foundry Sand As Partial
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-- Construction Blocks From C&D Debris Using The Innovative Co2
Sequestration Technique -- Durability Studies on Alkali Activated Fly
Ash and Ggbs Based Geopolymer Mortars -- A Comparative Study on
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Materials In Self-Healing Concrete -- Effect of Silica Fume on The Properties of Fly Ash Geopolymer Concrete -- Synthesis of Geo-Polymer Coarse Aggregates Using Class-F Fly Ash and Studies on Its Physical Properties -- Optimization of Resources by Real Time Correlation Study For Maximizing The Productivity -- Study on Mechanical Properties of Cement Concrete For Partial Replacement of Coarse Aggregate by Shredded Plastic and Cement by Fly Ash and Meta-Kaolin -- High Performance Concrete (Hpc) - An Innovative Cement Concrete Mix Design To Increase The Life Span of Structures --Study on Mechanical Properties and Leaching of Heavy Metals In The Artificial Produced Fly Ash Aggregates -- Feasibility of Producing Class F Fly Ash Geopolymer Mortar with Alkaline Water Containing Sodium Carbonate (Na2co3) -- Analytical Study on Disintegration of Concrete -- An Effect of Naoh Molarity on Flyash - Metakaolin Based Self Compacting Geopolymer Concrete -- A Review on Performance of Geopolymer In Concrete -- An Experimental Study on Workability and Strength Characteristics of M40 Grade Concrete by Partial Replacement of Cement with Nano Tio2 -- Studies on Fresh and Hardened Properties of Sugarcane Bagasse Ash Blended Self Compacting Concrete Mixes --Experimental Study on Improvement of Bearing Capacity Using Geosynthetic Stone Column -- Analysis and Modeling of Labor Productivity Using System Dynamics Approach In Construction Projects -- Implication of Concrete with Chemical Admixture Cured In Low Temperature on Strength, Chloride Permeability and Microstructure --Experimental Investigation on The Properties of Pervious Concrete Over Fibre Reinforced Pervious Concrete -- Role of Silica Fume In Producing High Strength Self-Compacting Concrete -- Problem Analysis and Geotechnical Study At Sengulam Augmentation Scheme -- Graphene In The Domain of Construction: A Review of Applications and Prospects --Experimental Analysis on Partial Replacement of Fine Aggregate by Granite Dust In Concrete -- Experimental Investigation of High Strength Self-Compacting Fibre Reinforced Concrete -- Effect of Curing Conditions on Mechanical Properties of Reactive Powder Concrete with Different Dosage of Quartz Powder -- The Effects of Ggbfs on Strength Properties of Geopolymer Concrete Cured At Ambient Temperature --Experimental and Finite Element Analysis of 80mpa Two-Span High-Performance Concrete Beam Under Flexure -- Techniques For Preparation and Dispersion of Nano- Sio2 In Cementitious System - A Review -- Life Cycle Costing For The Analysis of Cost-Effectiveness of Alternative Concretes and Masonry Blocks -- Study on Development of Strength Properties of Bio- Concrete -- Rice Husk Ash (Rha) - The Future of Concrete -- Effect of Nano-Silica and Ggbs on The Strength Properties of Fly Ash-Based Geopolymers -- Compressive Strength Prediction of High Strength Concrete Using Regression and Ann Models -- Prediction of Compressive Strength of High Volume Fly Ash Concrete Using Artificial Neural Network -- Experimental Investigation on Compressive Strength of Ld Slag Aggregate Concrete -- Cost Reduction Techniques on Mep Projects -- Mineralogical Study of Concretes Prepared Using Carbonated Fly Ash As Part Replacement of Cement --Effect of Supplementary Cementitious Materials on Mechanical Properties and Thermal Conductivity of Concretes and Masonry Blocks -- Mechanical Properties of Pavement Quality Concrete Produced with Reclaimed Asphalt Pavement Aggregates -- Effect of Partial Replacement of Coarse Aggregates with E-Waste on Strength Properties of Concrete -- Experimental Investigation on Utilization of Waste Shredded Rubber Tire As A Replacement To Fine Aggregate In Concrete -- Strength Characteristics of Laterized Mortars Using Processed Laterite -- Sustainable Building Management by Using Alternative

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Sommario/riassunto

This book presents select proceedings of the International Conference on Sustainable Construction and Building Materials (ICSCBM 2018), and examines a range of durable, energy-efficient, and next-generation construction and building materials produced from industrial wastes and byproducts. The topics covered include alternative, eco-friendly construction and building materials, next-generation concretes, energy efficiency in construction, and sustainability in construction project management. The book also discusses various properties and performance attributes of modern-age concretes including their durability, workability, and carbon footprint. As such, it offers a valuable reference for beginners, researchers, and professionals interested in sustainable construction and allied fields.