

1. Record Nr.	UNINA9910403766603321
Titolo	Advances in Structural Engineering : Select Proceedings of FACE 2019 / / edited by K. V. L. Subramaniam, Mohd Ataulloh Khan
Pubbl/distr/stampa	Singapore : , : Springer Singapore : , : Imprint : Springer, , 2020
ISBN	981-15-4079-9
Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (X, 240 p. 171 illus., 155 illus. in color.)
Collana	Lecture Notes in Civil Engineering, , 2366-2557 ; ; 74
Disciplina	624.1
Soggetti	Building Structural materials Vibration Dynamical systems Dynamics Statics Building - Superintendence Construction industry - Management Construction superintendence Building Construction and Design Structural Materials Vibration, Dynamical Systems, Control Mechanical Statics and Structures Construction Management
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Seismic Fragility Assessment of Unreinforced Masonry Shear Walls -- Axial Behavior of Corroded CFST Columns Wrapped with GFRP Sheets - An Experimental Investigation -- Tensile Membrane Structures: An Overview -- Investigation of Cold-formed Steel Members Subjected to Extreme Low Temperatures Relevant to the Arctic Environment -- Experimental Investigation on Crack Arresting Mechanism of Steel Fibre Reinforced Concrete Prism Specimens Using DIC and ae Technique -- Mathematical Model for the Compressive Strength and Elastic Properties of the Triple Blended Steel Fibre Self-compacting Concrete

Based on the Experimental Investigation -- Prediction of Concrete Compressive Strength Using Fuzzy Logic -- Comparative Study of Different Interior and Exterior Structural Forms Used in Design of Tall Structures.

---

Sommario/riassunto

This book contains selected papers in the area of structural engineering from the proceedings of the conference, Futuristic Approaches in Civil Engineering (FACE) 2019. In the area of construction materials, the book covers high quality research papers on raw materials and manufacture of cement, mixing, rheology and hydration, admixtures, characterization techniques and modeling, fiber-reinforced concrete, repair and retrofitting of concrete structures, novel testing techniques such as digital image correlation (DIC). Research on sustainable building materials like Geopolymer concrete and recycled aggregates are covered. In the area of earthquake engineering, papers related to the seismic response of load-bearing unreinforced masonry walls, reinforced concrete frame and buildings with dampers are covered. Additionally, there are chapters on structures subjected to vehicular impact and fire. The contents of this book will be useful for graduate students, researchers and practitioners working in the areas of concrete, earthquake and structural engineering.

---