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Nota di contenuto	Best Practices in Structural Engineering for Sustainability- An Introduction -- Analysis and Design of The Multi-Storied Building with Floating Columns, at Various Seismic Zones in India: A Review -- Characteristics of Fiber Reinforced Polymer Piles Through Finite Element Modelling -- Experimental Behaviour of Square High Performance Concrete Slender Columns under Different Loading -- Comparison of Finite Element Method Models for Predicting Concrete Compression and Flexural Strength -- Finite Element Based Dynamic Analysis of a T-Beam Bridge with Skew Supports -- Sap2000 Software Analysis and Design of the Intze Water Tank -- Comparative Study of Design of Elevated Storage Reservoir with IS:3370-2009 and IS:3370-2021 -- Assessment of Periphery Free-Standing Masonry Wall for Structural Safety and Integrity -- Analysis and Design of Steel Skywalk Bridge -- Studies on the Behaviour of Steel Fibre-Reinforced Concrete (SFRC) under Monotonic Loading in Flexure: A Systematic and Simplified Finite Element Model for Assessing the Structural Performance -- A Comprehensive Evaluation of Progressive Collapse Analysis: Insights on Research and Regulations Through a Systematic Review -- Modified Steel Tubes of Wind Turbine Tower Subjected to Compression-Bending Load -- Performance Analysis of Fixed and Seismic Base Isolation

System for Multi-Story Building -- Effect of Different Hybrid Configurations and Cut-out Sizes on the Static and Vibration Analysis of Composite Laminates.

Sommario/riassunto

This book presents select proceedings of the International Conference on Interdisciplinary Approaches in Civil Engineering for Sustainable Development (IACESD 2023) hosted under the aegis of the Group of Twenty (G20) and Civil 20(C20) at Jyothy Institute of Technology, Bengaluru, India. The topics covered in this book include innovative design approaches, advanced materials and cutting-edge technologies aimed at enhancing the resilience of structures against various hazards (such as seismic events, hurricanes, floods, and extreme weather conditions). It also covers topics such as structural integrity and longevity of buildings and infrastructure, advanced monitoring systems, data analytics and intelligent structural health monitoring. This book is useful for researchers and professionals in the field of structural engineering.