

1. Record Nr.	UNINA9911018747403321
Autore	Strauss Eric J
Titolo	Proceedings of the 9th International Conference on Civil Engineering : ICOCE 2025, 22–24 March, Singapore // edited by Eric J. Strauss
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2025
ISBN	981-9689-90-2
Edizione	[1st ed. 2025.]
Descrizione fisica	1 online resource (674 pages)
Collana	Lecture Notes in Civil Engineering, , 2366-2565 ; ; 714
Disciplina	624
Soggetti	Civil engineering Geotechnical engineering Mathematical physics Computer simulation Sustainable architecture Hydraulic engineering Transportation engineering Traffic engineering Civil Engineering Geotechnical Engineering and Applied Earth Sciences Computational Physics and Simulations Sustainable Architecture/Green Buildings Hydraulic Engineering Transportation Technology and Traffic Engineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Optimization of Geopolymer Concrete using Fly Ash, Rice Husk Ash, and Coconut Shell Ash for improved Workability, Durability and Mechanical Performance using Response Surface Methodology -- Development of Low Carbon Eco Friendly Bricks Using Water Purification Sludge -- Experimental Investigation of Napier Grass Stalk Fiber and Epoxy Resin as an Alternative Fiberboard -- Roman Concrete Technique Can It be the Solution to Modern Concrete Technology -- Experimental Study on Effect of Replacement of Cement with Alpha Aluminium oxide (Al ₂ O ₃) Nanoparticles on Strength and Durability

Aspects of Concrete -- Analysis of the Impact of Pier Axial Forces on Seismic Performance -- Numerical Analysis Model of Liquefied Soil, RC Pile, and Superstructure Interaction System -- Accuracy Verification of Evaluation Equation for Ultimate Damage Behavior of Soil Pile Superstructure Interaction System by Centrifugal Shaking Table Test -- Seismic Behavior of Private Wooden Building located in Bandung Regency, West Java, Indonesia -- Analytical Model Validation on Steel Infilled Frame Experimental Tests Result.

Sommario/riassunto

This book comprises the latest collection of peer reviewed research articles presented at the 9th International Conference on Civil Engineering, ICOCE 2025, held in Singapore from March 22 to 24. The proceedings focus on the state-of-the-art findings on topics of civil engineering and related fields. Engineering solutions are treated from a global perspective. Highlighted fields of inquiry include concrete technology, computer simulations, construction and engineering management, building materials, and architecture and urban planning. The authors outline solutions to physical, natural resource, and economic problems in many different contexts. This volume consists of refereed articles authored by a wide variety of international researchers and practitioners from many perspectives discussing current research solutions that involve problems in civil and environmental engineering. Examples that cover municipal development, transportation engineering, pollution control, and public safety are prominently featured. The chapters contain a diverse collection of applications that appeal to individuals with all levels of knowledge and interest in the important issues relevant to international engineering.
