

1. Record Nr.	UNINA9910988385903321
Titolo	Advanced Engineering and Sustainable Solutions / / edited by Deepak Kumar Singh, Saurabh Sambhav, Ashok Kumar Pandey, Azman Ismail, Fatin Nur Zulkipli, Andreas Öchsner
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2025
ISBN	3-031-81128-3
Edizione	[1st ed. 2025.]
Descrizione fisica	1 online resource (XVI, 297 p. 175 illus., 148 illus. in color.)
Collana	Advanced Structured Materials, , 1869-8441 ; ; 228
Disciplina	620.11
Soggetti	Materials Engineering design Materials - Analysis Mechanical engineering Materials Engineering Engineering Design Materials Characterization Technique Mechanical Engineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	1. Accurate Permeate Flux Prediction of the VMD Desalination Process Using GA-ANN Technique -- 2. Design and Development of a Microhole Grinding System of Zirconia Ceramics for Quality and Productivity Improvement -- 3. Exploring Diverse Research Fields in Water: Challenges and Opportunities -- 4. Analysis of a Plate with Variable Shaped Cut-Outs -- 5. Partial Replacement of Fine Aggregate with Plastic, Rubber or Electronic Wastes for the Manufacturing of Concrete -- 6. Quasi-Static Analysis of Fire Damaged Non-Pareille Manor House Gable Wall -- 7. Modelling the Characteristic of the Ship Berthing Force at Dock Using the Lagrangian Particle Method -- 8. Strength Analysis of Temporary Stool Configuration During Fabrication Process of an Offshore Converter Platform Topside Structure -- 9. Feasibility Study on Offshore Wind Farms in Kudat -- 10. Fluid-Structure Interaction Analysis on Drag Force for Semi-Submersible Structures.

Sommario/riassunto

This book is a comprehensive collection of cutting-edge research that addresses some of the most pressing challenges in modern engineering and applied sciences. This book features 26 chapters, each delving into innovative methodologies, advanced techniques, and sustainable solutions across a diverse range of disciplines. Each chapter presents rigorous analysis, practical applications, and forward-thinking solutions, making this book an essential resource for researchers, engineers, and professionals seeking to expand their knowledge and contribute to the advancement of sustainable technologies in their respective fields.
