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Nota di contenuto	Facile Fabrication of a Low-Cost Electrochemical Temperature Sensor -- Utilizing Perimeter Design in Sandwich Plates for Ship Structures -- The Water Quality Index: Effect of Antifouling Paint -- Experimental and Finite Element Analysis of Fibre-Reinforced Polymers Based on Tensile Testing -- Characterisation of Oil Palm Fibres as a Strengthening Material in Ceramic Membranes -- Review of Fiber Bragg Grating Sensors for Marine Applications -- Numerical Simulation of a Fixed Oscillating Water Column Wave Energy Converter Device -- A Marine Flame Resistance Wall from Renewable Local Natural Fiber -- Changes in Chemical Concentration of Silty Clay Added with Lime and Nanolime -- Preliminary Measurement of Underwater Acoustic Level --

Continuous Carbonization and Activation Process of Activated Carbon from Agriculture Waste -- Enhancing the Performance of Fluoro-Optic Temperature Sensors: Design Optimization and Calibration Techniques -- Defect Remedy Procedures Using Cold Method on Superheater Header (SA335 P11) -- Enhancing Electrical Efficiency of Photovoltaic Thermal Collectors through Nanofluids -- Preliminary Study on Built-up Back-to-back Cold-Formed Steel Stub Column Filled with Washed Bottom Ash Concrete -- Discrete Phase Modelling Simulation Study of Airborne Droplet Nuclei in a Classroom -- Algorithm for Optimization of Biomimick Vortex Generator - Airfoil Parameters -- Comparison of Deposit Development on Heated Surface Using Neat Diesel Fuel and Blended Palm Oil Biodiesel (B10-B50) -- Methylene Blue in Coating Solutions for Steel Corrosion Protection -- Fuzzy logic control Strategy and Instrumentation of Shell and Tube Heat Exchangers -- The Development of a Railway Route Crack Detection System Using an Arduino and an Ultrasonic Sensor -- Geometric Error Assessment of CNC Turning Machine Tools with a Case Study on Gildemeister CTX 310 Eco -- Assessment of Geometric Error for a CNC Vertical Milling Machine at No-Load Condition -- Lignin Fractionation from Oil Palm Biomass Using Deep Eutectic Solvent as a Carbon Fibre Precursor -- The Decomposition of Calcium Carbonate in Cockle Shell: Study on Particle Size and Temperature -- Sea Trial Evaluation of Kapok-Sawdust as New Green Oil Adsorbent in Portable Oil Spill Collectors -- Investigation on the Interaction of Controllable Pitch Propeller with Boss Cap Fins at Slow-Ahead, Half-Ahead, and Full-Ahead Position -- Design and Strength Analysis of Boat Trailer Sliders Using the Finite Element Method -- Ship Pipeline Corrosion Surface Evaluation using Image Processing in MATLAB -- Engine Room Indoor Air Quality Assessment Onboard a Medium-Speed Vessel -- Preliminary Development of a Software for Ship Maneuvering Ability Prediction.

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#### Sommario/riassunto

This book describes a diverse collection of engineering research and innovations across 35 chapters. Each chapter unveils a facet of modern engineering excellence. This book not only presents cutting-edge solutions but also addresses environmental sustainability. This book is an illuminating expedition into the heart of innovation, showcasing the ingenuity and collaborative spirit that define the future of engineering.

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