1. Record Nr. UNINA9910366615203321

Titolo	Advancement in Emerging Technologies and Engineering Applications / / edited by Chun Lin Saw, Tze Keong Woo, Salvinder Singh a/l Karam Singh, Didi Asmara Bin Salim
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2020
ISBN	981-15-0002-9
Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (424 pages)
Collana	Lecture Notes in Mechanical Engineering, , 2195-4364
Disciplina	338.064
Soggetti	Mechanics, Applied Solids Materials - Analysis Renewable energy sources Solid Mechanics Characterization and Analytical Technique Renewable Energy
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	A Study of Oil Spill at Marine Companies: Factors and Effects -- Deepwater Offloading In Malaysian Waters - Single Buoy Mooring Dynamics -- Investigation on the Propulsion Train System for Vibra-tion Induced Phenomenon onboard a Naval Vessel using Fast Fourier Transform -- Thermal Characteristics of Electrically Conductive Adhesives (ECAs): Study on Micro- and Nano-Sized Silver Particle Effect.
Sommario/riassunto	This book presents the proceedings of the Regional Conference on Marine and Mechanical Engineering (ReMME'18), organized by Boards of Engineers Malaysia (BEM), ASHRAE Malaysia Chapter, Malaysia Energy Commission. It discusses the expertise, skills, and techniques needed for the development of energy and renewable energy system, new materials and biomaterials, and marine technology. It focuses on finite element, computational fluids dynamics, programming and mathematical methods that are used for engineering simulations, and present many state-of-the-art applications and advances to highlight these methods' importance. For example, modern joining technologies

can be used to fabricate new compound or composite materials, even those formed from dissimilar component materials. These composite materials are often exposed to harsh environments, must deliver specific characteristics, and are primarily used in automotive and marine technologies, i.e., ships, amphibious vehicles, docks, offshore structures, and even robots. To achieve the desired material performance, computer-based engineering tools are widely used for simulation, data evaluation, and design. .