

1. Record Nr.	UNINA9910337635303321
Titolo	Advanced Engineering for Processes and Technologies // edited by Azman Ismail, Muhamad Husaini Abu Bakar, Andreas Öchsner
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2019
ISBN	3-030-05621-X
Edizione	[1st ed. 2019.]
Descrizione fisica	1 online resource (328 pages)
Collana	Advanced Structured Materials, , 1869-8441 ; ; 102
Disciplina	620
Soggetti	Mechanics, Applied Solids Materials - Analysis Materials Solid Mechanics Characterization and Analytical Technique Materials Engineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	1 State-of-the-art applications for the development of new materials and technologies -- 2 computer-based engineering tools which are widely used and related to the simulation, evaluation of data and design processes -- 3 Modern joining technologies can be used to fabricate new compound.
Sommario/riassunto	This volume contains many state-of-the-art applications for the development of new materials and technologies. It discusses computer-based engineering tools which are widely used and related to the simulation, evaluation of data and design processes. For example, modern joining technologies can be used to fabricate new compound or composite materials, even composed of dissimilar materials. Such materials are many times exposed to harsh environments and must reveal specific properties. Technologies in this context are mainly related to the transportation technologies in their wider sense. This means automotive and marine technology, i.e., ships, amphibious vehicles, docks, offshore structures, and even robots. Typically, finite

element and finite volume methods are used in the context of engineering simulations and this volume highlights their importance.
