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Titolo	Advances in Mechanical Engineering and Mechanics : Selected Papers from the 4th Tunisian Congress on Mechanics, CoTuMe 2018, Hammamet, Tunisia, October 13–15, 2018 // edited by Abdelmejjid Benamara, Mohamed Haddar, Benameur Tarek, Mezlini Salah, Chaari Fakher
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ISBN	3-030-19781-6
Edizione	[1st ed. 2019.]
Descrizione fisica	1 online resource (285 pages)
Collana	Lecture Notes in Mechanical Engineering, , 2195-4364
Disciplina	621
Soggetti	Multibody systems Vibration Mechanics, Applied Materials - Analysis Engineering design Multibody Systems and Mechanical Vibrations Characterization and Analytical Technique Engineering Design
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Bone Remodeling after Total Hip Arthroplasty – Numerical Calculation and Clinical Validation with DEXA Investigations -- Intelligent neural network control for active heavy truck suspension -- Analytical modeling of the tool trajectory with local smoothing -- Repairing Cracked Structures Using the IF Process -- Stochastic design of non-linear electromagnetic vibration energy harvester -- Mechanical characterization of coating materials based on nanoindentation technique -- An inverse calculation of local elastoplastic parameters from instrumented indentation test -- Finite element simulation of single point incremental forming process of aluminum sheet based on non-associated flow rule.
Sommario/riassunto	This book reports on original theoretical and experimental findings

related to a number of cutting-edge topics in mechanics and mechanical engineering, such as structure modelling and computation; design methodology and manufacturing processes; mechanical behaviour of materials; fluid mechanics and energy; and heat and mass transfer. It includes a selection of papers presented at the 4th Tunisian Congress on Mechanics, CoTuMe'2018, held in Hammamet, Tunisia, on October 13–15, 2018. Thanks to the good balance of theory and practical findings, it offers a timely snapshot for researchers and industrial communities alike, and a platform to facilitate communication and collaboration between the two groups.
