1. Record Nr. UNISA996418171303316

Titolo	Developments and Novel Approaches in Biomechanics and Metamaterials [[electronic resource] /] / edited by Bilen Emek Abali, Ivan Giorgio
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2020
ISBN	3-030-50464-6
Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (XXVIII, 484 p. 1 illus.)
Collana	Advanced Structured Materials, , 1869-8433 ; ; 132
Disciplina	612.76
Soggetti	Mechanics Mechanics, Applied Structural materials Computational complexity Classical Mechanics Solid Mechanics Structural Materials Complexity
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	1. Novel models in nonlinear solid mechanics -- 2. Developing cutting-edge methods -- 3. 3D printing - innovative methods -- 4. Places emphasis on the formulation of continuum -- 5. The design of metamaterials details from the participants in the IcONSOM 2019.
Sommario/riassunto	This book presents a selection of cutting-edge methods that allow readers to obtain novel models for nonlinear solid mechanics. Today, engineers need more accurate techniques for modeling solid body mechanics, chiefly due to innovative methods like additive manufacturing—for example, 3D printing—but also due to miniaturization. This book focuses on the formulation of continuum and discrete models for complex materials and systems, and especially the design of metamaterials. It gathers outstanding papers from the international conference IcONSOM 2019.