1. Record Nr. UNINA9910338725703321

Titolo	Journal of architectural engineering
Pubbl/distr/stampa	New York, NY, : American Society of Civil Engineers
ISSN	1943-5568
Disciplina	624.1
Soggetti	Structural engineering Habitations - Technique de la construction Baukonstruktion Zeitschrift Architektur Bauwesen Periodicals.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Periodico
Note generali	Refereed/Peer-reviewed Published: Reston, VA, <2008->.

2.

Record Nr.	UNINA9910437813003321
Autore	Ochsner Andreas
Titolo	Advances in bio-mechanical systems and materials / / Andreas Ochsner, Holm Altenbach, editors
Pubbl/distr/stampa	Cham ; ; New York, : Springer International Publishing, : Imprint : Springer, 2013
ISBN	9783319004792 3319004794
Edizione	[1st ed. 2013.]
Descrizione fisica	1 online resource (148 p.)
Collana	Advanced structured materials ; ; 40
Altri autori (Persone)	AltenbachHolm <1956->
Disciplina	571.43
Soggetti	Biomedical engineering Biomedical materials
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Effect of Lesion Eccentricity on Recirculation Length, Fractional Flow Reserve and Coronary Flow Reserve in Coronary Arteries -- Design of Biomechatronics Robot to Provide Therapy and Remove Tumors -- Nanostructured Hydroxyapatite Coating for Biodegradability Improvement of Magnesium-based alloy Implant -- The effects of cracks emanating from microvoid and bone inclusion in cemented total hip replacement -- Safety measures for avoiding or mitigating the occupant exposure in collisions with large animals -- Mechanical Evaluation of Microimplants for Dental Surgery -- Biomechanical prosthesis design of an orbitarian cranial cavity -- Optimization of the design of a four bar mechanism for a lower limb prosthesis using the taboo search algorithm -- Chitosan and Poly Vinyl Alcohol blends modified by radiation -- Mutual connections between mechanical and material factors, and the biological processes of implants adaptation.
Sommario/riassunto	This monograph presents the latest results related to bio-mechanical systems and materials. The bio-mechanical systems with which his book is concerned are prostheses, implants, medical operation robots and muscular re-training systems. To characterize and design such systems, a multi-disciplinary approach is required which involves the classical disciplines of mechanical/materials engineering and biology and medicine. The challenge in such an approach is that views,

concepts or even language are sometimes different from discipline to discipline and the interaction and communication of the scientists must be first developed and adjusted. Within the context of materials' science, the book covers the interaction of materials with mechanical systems, their description as a mechanical system or their mechanical properties.