

1. Record Nr.	UNINA9910450876703321
Titolo	Biomechanical systems technology . Volume 4 General anatomy [[electronic resource] /] / editor, Cornelius T. Leondes
Pubbl/distr/stampa	Hackensack, N.J., : World Scientific, c2007
ISBN	1-281-91176-3 9786611911768 981-277-139-5
Descrizione fisica	viii, 334 p. : ill
Altri autori (Persone)	LeondesCornelius T
Disciplina	612.76
Soggetti	Biomechanics Biomechanics - Methodology Computational biology - Methodology Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	ch. 1. Acoustical signals of biomechanical systems / E. Kaniusas -- ch. 2. Modeling techniques for liver tissue properties and their application in surgical treatment of liver cancer / J.-M. Schwartz ... [et al.] -- ch. 3. A survey of biomechanical modeling of the brain for intra-surgical displacement estimation and medical simulation / M. A. Audette ... [et al.] -- ch. 4. Techniques and applications of robust nonrigid brain registration / O. Clatz ... [et al.] -- ch. 5. Optical imaging in cerebral hemodynamics and pathophysiology: techniques and applications / Q. Luo ... [et al.] -- ch. 6. The auditory brainstem implant / H. Takahashi, M. Nakao and K. Kaga -- ch. 7. Spectral analysis techniques in the detection of coronary artery stenosis / E. D. Ubeyli and I. Guler -- ch. 8. Techniques in the contour detection of kidneys and their applications / M. Martin-Fernandez ... [et al.]
Sommario/riassunto	"Because of rapid developments in computer technology and computational techniques, advances in a wide spectrum of technologies, coupled with cross-disciplinary pursuits between technology and its application to human body processes, the field of biomechanics continues to evolve. Many areas of significant progress

include dynamics of musculoskeletal systems, mechanics of hard and soft tissues, mechanics of bone remodeling, mechanics of blood and air flow, flow-prosthesis interfaces, mechanics of impact, dynamics of man-machine interaction, and more. Thus, the great breadth and significance of the field in the international scene require a well integrated set of volumes to provide a complete coverage of the exciting subject of biomechanical systems technology. World-renowned contributors tackle the latest technologies in an in-depth and readable manner."

---