1. Record Nr. UNINA9910877551303321 Autore Behari Jitendra **Titolo** Biophysical bone behavior: principles and applications / / Jitendra Behari Pubbl/distr/stampa Singapore; ; Hoboken, NJ, : John Wiley, c2009 **ISBN** 1-282-37155-X 9786612371554 0-470-82402-6 0-470-82401-8 Descrizione fisica 1 online resource (501 p.) Disciplina 612.7/5 612.75 Soggetti **Bones Biophysics** Bones - Pathophysiology 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 and index. Nota di contenuto BIOPHYSICAL BONE BEHAVIOR: PRINCIPLES AND APPLICATIONS: Contents; Preface; Acknowledgements; About the Book; 1 Elements of Bone Biophysics; 1.1 Introduction; 1.2 Structural Aspect of Bone; 1.2.1 Elementary Constituents of Bone; 1.2.2 The Fibers; 1.2.3 Collagen Synthesis: 1.2.4 Bone Matrix (Inorganic Component): 1.3 Classification

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## Sommario/riassunto

Biophysical Bone Behaviour: Principles and Applications is the culmination of efforts to relate the biophysical phenomena in bone to bone growth and electrical behavior. Behari develops a bridge between physics and biology of bone leading to its clinical applications, primarily electro stimulations in fracture healing and osteoporosis. The book is based upon authors own research work and his review articles in the area, and updated with the latest research results. The first book dedicated to biophysical bone behaviorDevelops the relationship between the biophysics and biolo