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Descrizione fisica	1 online resource (xviii, 279 pages) : illustrations
Disciplina	616.0757076
Soggetti	Biomedical engineering Biophysics Spectrum analysis Microscopy Radiology Biomedical Engineering and Bioengineering Biological and Medical Physics, Biophysics Spectroscopy and Microscopy Imaging / Radiology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Chapter 1. Introduction -- Chapter 2. Electrical Impedance Spectroscopy -- Chapter 3. Basic Electrical Impedance Tomography -- Chapter 4. Electrical Impedance Tomography to Detect Trends in Pulmonary Edema -- Chapter 5. Electrical Impedance Signal Analysis for Medical Diagnosis -- Chapter 6. Tissue Engineering Instrumentation based on Electrical Impedance Measurements -- Chapter 7. Basics of Numerical Simulations of Bioimpedance Phenomena -- Chapter 8. Numerical Basics of Bioimpedance Measurements -- Chapter 9. Focused Impedance Method: Basics and Applications -- Chapter 10. Clinical Applications of Electrical Impedance Spectroscopy -- Chapter 11. Body Composition by Bioelectrical Impedance Analysis -- Chapter 12. Bioimpedance for Analysis of Body Composition in Sports -- Chapter 13. Wavelet Analysis in Impedance Spectral Rheocardiography.
Sommario/riassunto	This book is based on the best contributions to the advancement of

bioimpedance knowledge and use from the Latin American Congress series, CLABIO. Basic bioimpedance facts as well as promising and original contributions to bioimpedance theory and applications are presented, giving the reader stimulating material for reflection, decision making, and further experiments. Contributions come from a diverse international pool of experts and address topics on electrode and skin impedance modelling, tomography, spectroscopy, instrumentation, and clinical applications.
