

Biomedical Instrumentation By M Arumugam

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Provides the latest "-omics" tools to advance the study of food and nutrition The rapidly emerging field of foodomics examines food and nutrition by applying advanced "-omics" technologies in order to improve people's health, well-being, and knowledge. Using tools from genomics, transcriptomics, epigenomics, proteomics, and metabolomics, foodomics offers researchers new analytical approaches to solve a myriad of current challenges in food and nutrition science. This book presents the fundamentals of foodomics, exploring the use of advanced mass spectrometry techniques in food science and nutrition in the post-genomic era. The first chapter of the book offers an overview of foodomics principles and applications. Next, the book covers: Modern instruments and methods of proteomics, including the study and characterization of food quality, antioxidant food supplements, and food allergens Advanced mass spectrometry-based methods to study transgenic foods and the microbial metabolome Mass spectrometry-based metabolomics in nutrition and health research Foodomics' impact on our current understanding of micronutrients (phenolic compounds and folates), optimal nutrition, and personalized nutrition and diet related diseases Principles and practices of lipidomics and green foodomics Use of chemometrics in mass spectrometry and foodomics The final chapter of Foodomics explores the potential of systems biology approaches in food and nutrition research. All the chapters conclude with references to the primary literature, enabling readers to explore individual topics in greater depth. With contributions from a team of leading pioneers in foodomics, this book enables students and professionals in food science and nutrition to take advantage of the latest tools to advance their research and open up new areas of food and nutrition investigation.

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Biomedical InstrumentationPrinciples of Medical Electronics and Biomedical InstrumentationUniversities PressIndian Books in Print??????

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"Introduction to Skin Biothermomechanics and Thermal Pain" introduces the study of coupled bio-thermo-mechanical and neural behavior of skin tissue in response to thermal and mechanical loads. The research in this book focuses on the theoretical modeling and experimental investigation of heated skin tissue in order to provide a predictive framework for thermal therapies of diseased tissue in clinics. Furthermore, by developing solution tools, it focuses on changes in treatment parameters leading to more effective therapies. The book is intended for researchers and scientists in Bioengineering, Heat Transfer, Mechanics, Biology and Neurophysiology, as well as clinicians. Dr. Feng Xu is a research fellow at Harvard Medical School, Boston, MA, USA. Dr. Tianjian Lu is a professor at the School of Aerospace, Xi'an Jiaotong University, Xi'an, China. Dr. Xu and Dr. Lu are also affiliated with Biomedical Engineering and Biomechanics Center at Xi'an Jiaotong University, Xi'an, China.

????:Radiation detection and measurement

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Provides information about admission, financial aid, programs and institutions, and research specialties within the fields of engineering and applied sciences, including civil engineering, information technology, and bioengineering.

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