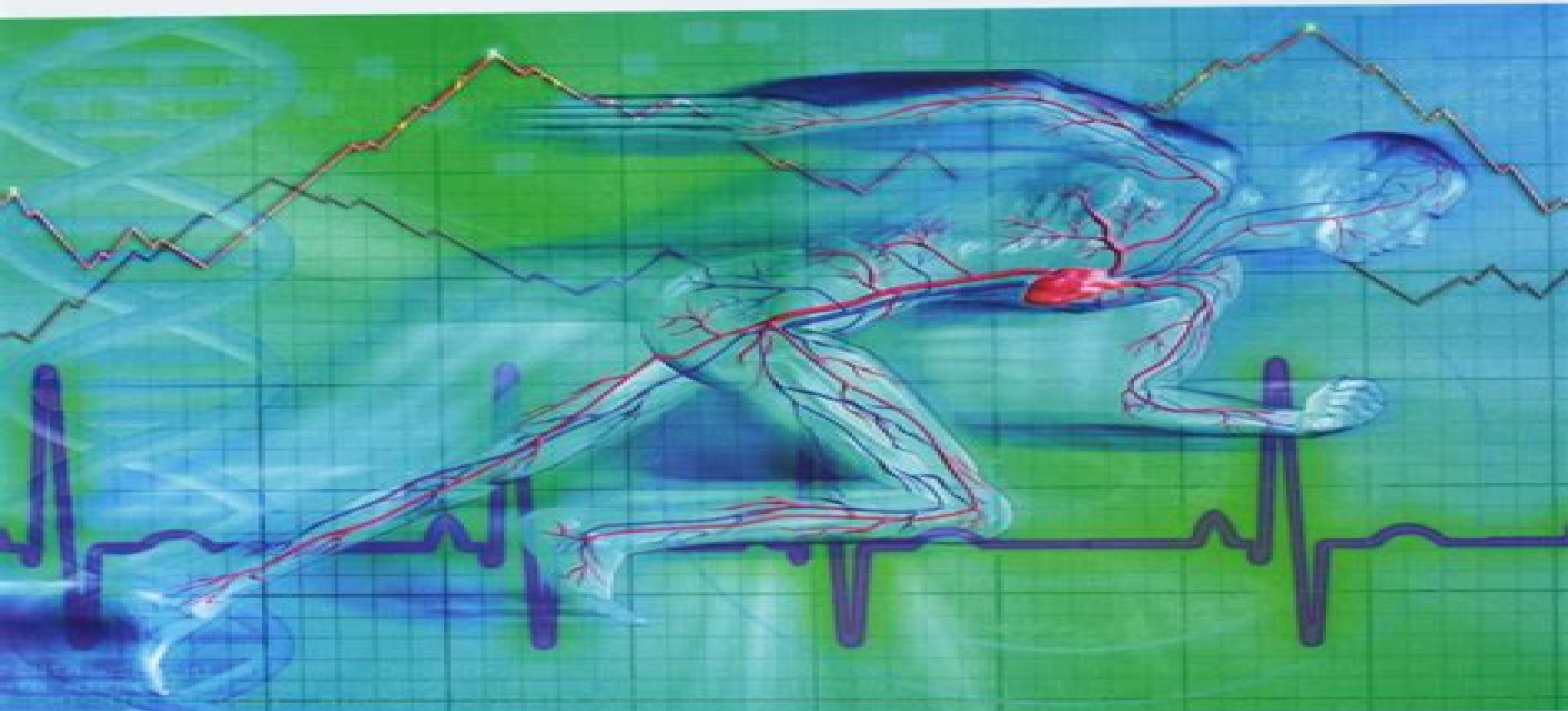


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Introduction to Biomedical Engineering Douglas A. Christensen, 2009 Intended as an introduction to the field of biomedical engineering this book covers the topics of biomechanics Part I and bioelectricity Part II Each chapter emphasizes a fundamental principle or law such as Darcy's Law Poiseuille's Law Hooke's Law Starling's Law levers and work in the area of fluid solid and cardiovascular biomechanics In addition electrical laws and analysis tools are introduced including Ohm's Law Kirchhoff's Laws Coulomb's Law capacitors and the fluid electrical analogy Culminating the electrical portion are chapters covering Nernst and membrane potentials and Fourier transforms Examples are solved throughout the book and problems with answers are given at the end of each chapter A semester long Major Project that models the human systemic cardiovascular system utilizing both a Matlab numerical simulation and an electrical analog circuit ties many of the book's concepts together

Fundamental Bioengineering John Villadsen, 2016-02-23 A thorough introduction to the basics of bioengineering with a focus on applications in the emerging white biotechnology industry As such this latest volume in the Advanced Biotechnology series covers the principles for the design and analysis of industrial bioprocesses as well as the design of bioremediation systems and several biomedical applications No fewer than seven chapters introduce stoichiometry kinetics thermodynamics and the design of ideal and real bioreactors illustrated by more than 50 practical examples Further chapters deal with the tools that enable an understanding of the behavior of cell cultures and enzymatically catalyzed reactions while others discuss the analysis of cultures at the level of the cell as well as structural frameworks for the successful scale up of bioreactions In addition a short survey of downstream processing options and the control of bioreactions is given With contributions from leading experts in industry and academia this is a comprehensive source of information peer reviewed by experts in the field

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Prototype of a Biomimetic Multi-Spiked Connecting Scaffold for a New Generation of Resurfacing Endoprostheses Ryszard Uklejewski, Piotr Rogala, Mariusz Winiecki, 2023-08-17 The monograph comprehensively presents the research on the prototype of the biomimetic Multi Spiked Connecting Scaffold MSC Scaffold for cementless fixation of the components of a new generation of resurfacing arthroplasty RA endoprostheses This research carried out by a bioengineering surgical team from three Polish universities includes bioengineering design rapid prototyping manufacturing in selective laser melting functionalization surface modification numerical studies experimental in vitro studies and pilot surgical experiments in an animal model Features Presents the prototype of the multi spiked connecting scaffold for a new generation of resurfacing endoprostheses of the knee and the hip Explains this prototype scaffold as the first worldwide design of the biomimetic fixation of components of diarthrodial joints resurfacing endoprostheses Insights into the entire process of bioengineering design and research on this novel way of resurfacing endoprostheses fixation Reviews main results of the scaffold prototyping and SLM manufacturing structural and osteoconductive functionalization and surface modification Reports experimental and numerical investigations of mechanical behavior of the scaffold bone system cell culture studies and pilot surgical experiments in animal models This book is aimed at professionals and graduate students in biomedical engineering biomaterials engineering and bone joint surgery The Open Access version of this book available at <http://www.taylorfrancis.com> has been made available under a Creative Commons Attribution Non Commercial No Derivatives CC BY NC ND 4.0 license

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