

ACADEMIC PRESS SERIES IN BIOMEDICAL ENGINEERING



Introduction to  
**BIOMEDICAL  
ENGINEERING**  
Third Edition

JOHN ENDERLE  
JOSEPH BRONZINO



# Introduction To Biomedical Engineering

**Domach**



## **Introduction To Biomedical Engineering:**

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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 Table of Contents Basic Concepts Darcy's Law Poiseuille's Law Pressure Driven Flow Through Tubes Hooke's Law Elasticity of Tissues and Compliant Vessels Starling's Law of the Heart Windkessel Elements and Volume Euler's Method and First Order Time Constants Muscle Leverage Work Energy and Power

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*Introduction to Biomedical Imaging* Andrew G. Webb, 2002-12-26 An integrated comprehensive survey of biomedical imaging modalities An important component of the recent expansion in bioengineering is the area of biomedical imaging This book provides in depth coverage of the field of biomedical imaging with particular attention to an engineering viewpoint Suitable as both a professional reference and as a text for a one semester course for biomedical engineers or medical technology students

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engineering in them Engineering is invention and designing things that do not exist in nature for the benefit of humanity Invention can be taught by making inventive thinking a conscious part of our daily life This is the approach taken by the authors of this book Each author discusses an ongoing project and gives a sample of a professional publication Students are asked to work through a sequence of assignments and write a report Almost everybody soon realizes that more scientific knowledge is needed and a strong motivation for the study of science is generated The teaching of inventive thinking is a new trend in engineering education Bioengineering is a good field with which to begin this revolution in engineering education because it is a youthful developing interdisciplinary field

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