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Altri autori (Persone)	Dunn, Stanley Martin Constantinides, Alkisauthor Moghe, Prabhas V.
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Nota di contenuto	Section I: Fundamentals of Computational Analysis and Modeling Biosystems; Section II: Steady State Biosystems: Linear and Non-linear Models; Section III: Dynamic Biosystems Modeled with Ordinary or Partial Differential Equations; Section IV: Computational Packages of Physiology Models and Case Studies
Sommario/riassunto	Numerical Modeling in Biomedical Engineering brings together the integrative set of computational problem solving tools important to biomedical engineers. Through the use of comprehensive homework exercises, relevant examples and extensive case studies, this book integrates principles and techniques of numerical analysis. Covering biomechanical phenomena and physiologic, cell and molecular systems, this is an essential tool for students and all those studying biomedical transport, biomedical thermodynamics & kinetics and biomechanics. Supported by Whitaker Foundation Teaching Materials Program; ABET-oriented pedagogical layout MATLAB problem sets and examples available electronically; UNIX, Windows, Mac OS compatible Extensive hands-on homework exercises

