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Modeling And Simulation In Biomedical

Written by a coinventor of the Human Patient Simulator (HPS) and past president of the Society in Europe for Simulation Applied to Medicine (SESAM), Modeling and Simulation in Biomedical Engineering: Applications in Cardiorespiratory Physiology is a compact and consistent introduction to this expanding field. The book divides the modeling and simulation process into five manageable steps--requirements, conceptual models, mathematical models, software implementation, and simulation results ...

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The book ends with a more advanced section of 2 chapters covering sensitivity analysis and setting model requirements as part of an encompassing simulation and simulator design. The target audience are those studying or working in biomedical engineering, not only engineers, physicists, and applied mathematicians but also biologists ...

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While modeling targets the conceptualization, simulation challenges mainly focus on implementation, in other words, modeling resides on the abstraction level, whereas simulation resides on the implementation level.

Modeling and simulation - Wikipedia

Biological Modeling and Simulation is an essential guide that helps biologists explore the fundamental principles of modeling. It should be on the bookshelf of every student and active researcher.

Biological Modeling and Simulation | The MIT Press

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