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We can use words, drawings or sketches, physical models, computer programs, or mathematical formulas. In other words, the modeling is done in several languages, often simultaneously. Since we are particularly interested in using the language of mathematics to make models

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I found this book very helpful for becoming familiar with mathematical models of physiological systems, especially cardiovascular and pulmonary system dynamics. The best way to understand systems, especially physiological system dynamics, is through creating math models and then simulating the models in real time and or non real time.

WhatIsMathematical Modeling?

About Mathematical and Computer Modelling Mathematical and Computer Modelling provides a medium of exchange for the diverse disciplines of mathematical or computer modelling as either a theoretical or working tool.

Mathematical and Computer Modelling

Computer simulation is the process of mathematical modelling, performed on a computer, which is designed to predict the behaviour of a real-world or physical system. Since they allow to check the reliability of chosen mathematical models, computer simulations have become an essential part of the mathematical modeling of many natural systems in physics, astrophysics, climatology, chemistry, biology and manufacturing, as well as in economics, psychology, social science

Computer simulation - Wikipedia

@inproceedings{Rideout1991MathematicalAC, title={Mathematical and Computer Modeling of Physiological Systems}, author={Vincent C. Rideout}, year={1991} } Vincent C. Rideout Published 1991 Computer Science 768 pages. The book presents all the necessary theory for the successful design of automatic ...

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allows the efficient use of modern computing capabilities. Learning about mathematical modeling is an important step from theoretical training to an application-oriented mathematical expertise, and makes the student fit for mastering the challenges of our modern technology list of applications.

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