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the model equations may never lead to elegant results, but it is much more robust against alterations. 1.2 What objectives can modelling achieve? Mathematical modelling can be used for a number of different reasons. How well any particular objective is achieved depends on both the state of knowledge about a system and how well the modelling is ...

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Introduction to Modeling and Simulation

We can use words, drawings or sketches, physical models, computer programs, or mathematical formulas. In other words, the modeling activity can be done in several languages, often simultaneously. Since we are particularly interested in using the language of mathematics to make models, 3

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use mathematical modeling, namely information and communication technology, bioengineering, financial engineering, and so on. As a matter of fact, mathematical models offer new possibilities to manage the increasing complexity of technology, which is at the basis of modern industrial. Ali Quarteroni is professor of mathematics at the Ecole

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