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So models deepen our understanding of 'systems', whether we are talking about a mechanism, a robot, a chemical plant, an economy, a virus, an ecology, a cancer or a brain. And it is necessary to understand something about how models are made. This book will try to teach you how to build mathematical models and how to use them.

An Introduction to Mathematical Modelling

Transfer function model is an s-domain mathematical model of control systems. The Transfer function of a Linear Time Invariant (LTI) system is defined as the ratio of Laplace transform of output and Laplace transform of input by assuming all the initial conditions are zero.

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Control Systems - Mathematical Models - Tutorialspoint

In Chapter 1 we will describe the roles that models of dynamical systems play; Chapter 2 gives a number of examples of models from different areas. In Chapter 3 the necessary, formal mathematical back- ground to handle models and systems is given.

Prentice

The mathematical models depict explicit relationships and interrelationships among the variables and other factors deemed important in solving problems. The Structure of Mathematical Models : Mathematical models are typically in the form of equations or other mathematical statements.

Mathematical Models: Types, Structure and Advantages

...

Often the mathematical model developed is a mathematical

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“find” problem such as a scalar equation, a system of linear algebraic equations, or a differential equation. Finding all solutions of an ODE is a “find” problem. We wish to find all functions in a particular function class that satisfy the ODE.

Applied Problems, Mathematical Modeling, Mathematical

...

Because of its simple algebraic form, the solution of Eq. (1.2) can be obtained easily. However, other mathematical models of physical phenomena may be much more complex, and either cannot be solved exactly or require more sophisticated mathematical techniques than simple algebra for their solution. To illustrate a more complex model of this kind,

CHAPTER 1

Mathematical modeling. is indispensable in many applications is successful in many further applications gives precision and

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direction for problem solution enables a thorough understanding of the system modeled prepares the way for better design or control of a system allows the efficient use of modern computing capabilities

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We soon may note that this system has a unique solution with positive components. Moreover, that adding the three equation in (4) we get $S_0(t)+I_0(t)+R_0(t) = 0$; so that we have that the total population is constant $N(t) = S_0 + I_0 + R_0 = N$ (5) and is a

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parameter of the model, included in the force of infection (1).

THE MATHEMATICAL MODELING OF EPIDEMICS

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