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Edward A Bender

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A mathematical model for the evolution of the (still unspecified) quantity a_n could take the form $a_{n+1} = \lambda a_n + c$. In words, the new value is a scalar multiple of the old value offset by some constant c . This model is common, e.g., it is used for

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mathematical modeling bank loans. One might amend the model to make the dependence depend on more terms and to include

MATHEMATICAL MODELING A Comprehensive Introduction

1 Introduction 1.1 What is mathematical modelling? Models describe our beliefs about how the world functions. In mathematical modelling, we translate those beliefs into the language of mathematics. This has many advantages 1. Mathematics is a very precise language. This helps us to formulate ideas and identify underlying assumptions. 2.

An Introduction to Mathematical Modelling

A mathematical model is a mathematical relation that describes some real-life situation. Mathematical models are used to solve many real-life situations like: •

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- launching a satellite.
- predicting the arrival of the monsoon.
- controlling pollution due to vehicles.
- reducing traffic jams in big cities.

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We begin with a definition based on the previous discussion: A mathematical model is an abstract, simplified, mathematical construct related to a part of reality and created for a particular purpose.

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Equations, & Linear Algebra (The First
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A modern approach to mathematical
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