Introduction to Ordinary Differential Equations with Mathematica: An Integrated Multimedia Approach

Alfred Gray, Michael J. Mezzino Jr., Mark A. Pinsky

Publisher: TELOS/Springer-Verlag
Copyright year: 1997
ISBN: 0387944818


Description

Book/CD-ROM package that provides a traditional treatment of elementary ordinary differential equations while introducing computer-assisted methods available with Mathematica. Classical solution methods are presented in parallel with those in Mathematica. Models are developed from classical physics, population biology, electrical circuits, and elementary mechanics. Requires knowledge of calculus of one variable. Knowledge of multi-variable calculus and linear algebra is recommended.

Subject

Mathematics > Calculus and Analysis > Differential Equations