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Aims & scope. Differential Equations is a journal devoted to differential equations and the associated integral equations. The journal publishes original articles by authors from all countries and accepts manuscripts in English and Russian. The topics of the journal cover ordinary differential equations, partial differential equations, spectral theory of differential operators, integral and integral-differential equations, difference equations and their applications in control theory, ...

Differential Equations | Home

Abstract. A differential equation is an equation relating a function with its derivatives. In these equations, the functions often represent physical quantities, the derivatives represent their rates of change and the equation defines their relationship. Differential equations have been and still are a major and important branch of pure and applied mathematics since their invention in the mid-seventeenth century.

Differential Equations | SpringerLink

Introduction. This book is designed to serve as a textbook for a course on ordinary differential equations, which is usually a required course in most science and engineering disciplines and follows calculus courses.

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Including various examples from physics, mechanics, natural sciences, engineering and automatic theory, Differential Equations is a bridge between the abstract theory of differential equations and applied systems theory. Particular attention is given to the existence and uniqueness of the Cauchy problem, linear differential systems, stability theory and applications to first-order partial differential equations.

Differential Equations | Viorel Barbu | Springer

Differential Equations Proceedings of the 1st Latin American School of Differential Equations, Held at São Paulo, Brazil, June 29-July 17, 1981

Differential Equations - Springer

This textbook is for the standard, one-semester, junior-senior course that often goes by the title "Elementary Partial Differential Equations" or "Boundary Value Problems;' The audience usually consists of stu dents in mathematics, engineering, and the physical sciences. The topics include

Applied Partial Differential Equations - Springer

Partial differential equations (PDEs) are fundamental to the modeling of natural phenomena, arising in every field of science. Consequently, the desire to understand the solutions of these equations has always had a prominent place in the efforts of mathematicians; it has inspired such diverse fields as complex function theory, functional analysis, and algebraic topology.

An Introduction to Partial Differential Equations - Springer

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The theory of differential and difference equations forms two extreme representations of real world problems. For example, a simple population model when represented as a differential equation shows the good behavior of solutions whereas the corresponding discrete analogue shows the chaotic behavior.

Advances in Difference Equations | Home page

springer, Differential Equations for Scientists and Engineers is a book designed with students in mind. It attempts to take a concise, simple, and no-frills approach to differential equations. The approach used in this text is to give students extensive experience in main solution techniques with a lighter emphasis on the physical interpretation of the results.

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Physics, as the most exact science, is characterized by its ability to make mathematical predictions. Predictions are based on two factors: the initial information (data), and the law governing the...

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