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Differential Equations | Home

Abstract. A differential equation is an equation relating a function with its derivatives. In these

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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.

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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

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Partial Differential Equations" or "Boundary Value Problems;" The audience usually consists of students in mathematics, engineering, and the physical sciences. The topics include

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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.

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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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