DIFFERENTIAL EQUATIONS COMPUTING AND MODELING

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Here is a set of notes used by Paul Dawkins to teach his Differential Equations course at Lamar University. Included are most of the standard topics in 1st and 2nd order differential equations, Laplace transforms, systems of differential eqauations, series solutions as well as a brief introduction to boundary value problems, Fourier series and partial differntial equations.

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Differential Equations Applied Mathematical Modeling

An introduction to ordinary differential equations and systems of ordinary differential equations, including new analytical methods to solve nonlinear equations, mathematical modeling, computer programming, computer graphics with MAPLE, and applications in science and engineering.

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Partial differential equation Wikipedia

In mathematics, a partial differential equation (PDE) is a differential equation that contains beforehand unknown multivariable functions and their partial derivatives.PDEs are used to formulate problems involving functions of several variables, and are either solved by hand, or used to create a computer model.A special case is ordinary differential equations (ODEs), which deal with functions

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Ordinary differential equation Wikipedia

Sturm Liouville theory is a theory of a special type of second order linear ordinary differential equations. Their solutions are based on eigenvalues and corresponding eigenfunctions of linear operators defined in terms of second-order homogeneous linear equations.

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Differential Equations Partial Differential Equations

In this chapter we introduce Separation of Variables one of the basic solution techniques for solving partial differential equations. Included are partial derivations for the Heat Equation and Wave Equation. In addition, we give solutions to examples for the heat equation, the wave equation and Laplace s equation.

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