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A Textbook on Ordinary Differential
Equations Second Edition. ShairAhmad
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A Textbook on Ordinary Differential Equations UNITEXT

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another recent undergraduate textbook,
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A First Course in Differential Equations - books.google.com

focuses the student's attention on the
idea of seeking a solution of a
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uy_1 , where y_1 is a known solution of related equation and u is a function to be determined. I use this idea in nonstandard ways, as follows: In Section 2.4 to solve nonlinear first order equations, such as Bernoulli equations and nonlinear

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to boundary value problems, Fourier series and partial differential equations.

Differential Equations - Lamar University

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they are solved, together with the techniques needed to determine if a partial differential equation is well-posed or what the "natural" boundary conditions are.

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Separation of the variable is done when

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the differential equation can be written in the form of $dy/dx = f(y)g(x)$ where f is the function of y only and g is the function of x only. Taking an initial condition, rewrite this problem as $1/f(y)dy = g(x)dx$ and then integrate on both sides. Also, check: Solve Separable Differential Equations Integrating factor technique is used when the differential

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