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This textbook contains all of the topics that are usually covered in an undergraduate course on ordinary differential equations and has a section devoted to partial differential equations of the second order. The text does satisfy the requirements...read more Reviewed by Anna Ghazaryan, Associate Professor, Miami University on 1/21/20

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Included in these notes are links to short tutorial videos posted on YouTube. Much of the material of Chapters 2-6 and 8 has been adapted from the widely used textbook "Elementary differential equations and boundary value problems" by Boyce & DiPrima (John Wiley & Sons, Inc., Seventh Edition, ⃝c 2001).

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In mathematics, a differential equation is an equation that relates one or more functions and their derivatives. In applications, the functions generally represent physical quantities, the derivatives represent their rates of change, and the differential equation defines a relationship between the two. Such relations are common; therefore, differential equations play a prominent role in many disciplines including engineering, physics, economics, and biology. Mainly the study of differential equa

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26.1 Introduction to Differential Equations. A differential equation is an equation involving derivatives. The order of the equation is the highest derivative occurring in the equation. Here are some examples. The first four of these are first order differential equations, the last is a second order equation.