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The authors describe a two-year
collaborative project between the
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Departments. The collaboration effort involved enhancing the first year calculus courses with applied engineering and science projects. Two enhanced sections of the differential (first semester) and integral (second semester) calculus courses were offered during the duration of the project.

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be a quantity that increases with time t and the rate of increase is proportional to the same quantity P as follows

Applications of Differential Equations

The RLC circuit equation (and pendulum equation) is an ordinary differential

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equation, or ode, and the diffusion
equation is a partial differential equation,
or pde. An ode is an equation for a
function of a single variable and a pde for
a function of more than one variable.

Differential Equations for Engineers

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equations

In Mechanical engineering field Laplace
Transform is widely used to solve

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differential equations occurring in mathematical modeling of mechanical system to find transfer function of that particular system. Following example describes how to use Laplace Transform to find transfer function.

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other situations application 1 exponential
growth population let $p(t)$ be a quantity that
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Techniques of Integration; Applications of
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Equations; Homogeneous, Inhomogeneous
Equations, and Exact Equations;

Homogeneous Linear Equations with

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such as heat transfer, elasticity, quantum

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