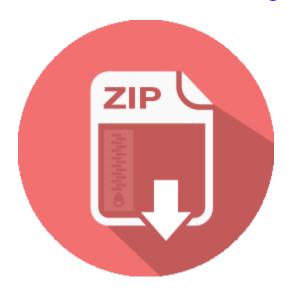
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A differential equation is an equation that contains one or more derivatives. For example, y (x)+x3y

 $(x)+y5(x)=10\cos(4x)$ ; d4w dt4 (w(t))3=e 5t: If the differential equation is involved with only total derivatives, then it is called an ordinary differential equation.

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neering applications. Theory and techniques for solving differential equations are then applied to solve practical engineering problems. Detailed step-by-step analysis is pre-sented to model the engineering problems using differential equations from physical principles and to solve the differential equations using the easiest possible method. Such

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