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DIFFERENTIAL EQUATIONS FOR ENGINEERS This book presents a systematic and comprehensive introduction to ordinary differential equations for engineering students and practitioners. Mathematical concepts and various techniques are presented in a clear, logical, and concise manner. Various visual features are used to highlight focus areas.

### **DIFFERENTIAL EQUATIONS FOR ENGINEERS**

Theory and techniques for solving differential equations are then applied to solve practical engineering problems. A step-by-step analysis is presented to model the engineering problems using differential equations from physical principles and to solve the differential equations using the easiest possible method.

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0.2. INTRODUCTION TO DIFFERENTIAL EQUATIONS 7 0.2 Introduction to differential equations Note: more than 1 lecture, §1.1 in [EP.], chapter 1 in [BD.] 0.2.1 Differential equations The laws of physics are generally written down as differential equations. Therefore, all of science and engineering use differential equations to some degree.

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A differential equation is an equation that contains one or more derivatives. For example,  $y'' + x^3y' + y^5(x) = 10\cos(4x)$ ;  $d^4w/dt^4 (w(t))^3 = e^{5t}$ : If the differential equation is involved with only total derivatives, then it is called an ordinary differential equation.

### **Differential Equations and Engineering Applications**

What is not covered The most conspicuous differential equations subject that is not covered in this text is

the use of power series solutions, particularly as applied to second order

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