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$= 0$, with roots $r_1 = 2, r_2 = 1$. The general solution is $x(t) = c_1 e^{2t} + c_2 e^t$, with derivative $x'(t) = 2c_1 e^{2t} + c_2 e^t$. Initial conditions are satisfied by solving $x(0) = c_1 + c_2 = 1$ and $x'(0) = 2c_1 + c_2 = 0$ to find $c_1 = 1, c_2 = 2$. The final solution is $x(t) = e^{2t} + 2e^t = e^{2t}(1 + 2e^t)$.

2. Differential Equations for Engineers 2 ORDINARY DIFFERENTIAL EQUATIONS FOR ENGINEERS With the replacements of the variables $y, y', \dots, y^{(n)}$ in 1.1 by the functions $\phi(x), \phi'(x), \dots, \phi^{(n)}(x)$, the EQ. (1.1) becomes an identity over $x \in (I)$. In other words, the right hand side of Eq. ORDINARY DIFFERENTIAL EQUATIONS FOR ENGINEERS | THE ... Many scientific laws and engineering principles and systems are in the form of or can be described by differential equations.

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phenomena, whether in the domain of fluid dynamics, electricity, magnetism, mechanics, optics, or heat flow, can be described in general by partial differential equations. Indeed, such equations are crucial to mathematical physics. Partial Differential Equations for Scientists and Engineers Calculus with differential equations is the universal language of engineers. In this course, "Engineering Calculus and Differential Equations," we will introduce fundamental concepts of single-variable calculus and ordinary differential equations. We'll explore their applications in different engineering fields.

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