

Chapter 1

Introduction to Differential Equations

Section 1.2

1. This D.E. is of order two because the highest derivative in the equation is y'' .
2. Order is 1.
3. This D.E. is of order one because the highest derivative in the equation is y' . (Note: $(y')^3 \neq y'''$)
4. Order is 3.
5. Differentiating gives us $y' = ke^{3t}$. Substitution yields $ke^{3t} + 2e^{3t} = 0$. Therefore, $k = -2$.
6. $y'' - y = 0 \Rightarrow k^2 e^{kt} - e^{kt} = 0 \Rightarrow k = \pm 1$.
7. Differentiating gives us $y' = -2k \sin 2te^{k \cos 2t}$. Substitution yields $-2k \sin 2te^{k \cos 2t} + \sin 2te^{k \cos 2t} = 0$. Therefore, $\sin 2te^{k \cos 2t}(-2k + 1) = 0$, and solving for k gives us $k = \frac{1}{2}$.
8. $y = ke^{-t}$, $y' + y = 0$, $-ke^{-t} + ke^{-t} = 0$, k can be any real number.
- 9 (a). $y = Ce^{t^2}$. Differentiating gives us $y' = Ce^{t^2} \cdot 2t = 2ty$. Therefore, $y' - 2ty = 0$ for any value of C .
- 9 (b). Substituting into the differential equation yields $y(1) = Ce^{1^2} = Ce$. Using the initial condition, $y(1) = 2 = Ce$. Solving for C , we find $C = 2e^{-1}$.
10. $y''' = 2$, $y'' = 2t + c_1$, $y' = t^2 + c_1 t + c_2$, $y = \frac{t^3}{3} + c_1 \frac{t^2}{2} + c_2 t + c_3$.
Order = 3 3 arbitrary constants
- 11 (a). $y = C_1 \sin 2t + C_2 \cos 2t$. Differentiating gives us $y' = 2C_1 \cos 2t - 2C_2 \sin 2t$ and $y'' = -4C_1 \sin 2t - 4C_2 \cos 2t = -4(C_1 \sin 2t + C_2 \cos 2t) = -4y$. Therefore, $y'' + 4y = -4y + 4y = 0$ and thus $y(t) = C_1 \sin 2t + C_2 \cos 2t$ is a solution of the D.E. $y'' + 4y = 0$.
- 11 (b). $y\left(\frac{\pi}{2}\right) = C_1(1) + C_2(0) = C_1 = 3$ and $y'\left(\frac{\pi}{2}\right) = 2C_1(0) - 2C_2(1) = -2C_2 = -2 \Rightarrow C_2 = 1$.
12. $y = 2e^{-4t}$, $y' + ky = -8e^{-4t} + 2ke^{-4t} = 2(k - 4)e^{-4t} = 0$
 $\therefore k = 4$, $y(0) = 2 = y_0$, $\therefore k = 4, y_0 = 2$.

Elementary Differential Equations Kohler Solution Manual

D Keegan



Elementary Differential Equations Kohler Solution Manual:

The book delves into Elementary Differential Equations Kohler Solution Manual. Elementary Differential Equations Kohler Solution Manual is a crucial topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Elementary Differential Equations Kohler Solution Manual, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Elementary Differential Equations Kohler Solution Manual
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 - Chapter 3: Elementary Differential Equations Kohler Solution Manual in Everyday Life
 - Chapter 4: Elementary Differential Equations Kohler Solution Manual in Specific Contexts
 - Chapter 5: Conclusion
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web scope 1 1 this specification covers carbon steel castings for general applications that require up to 70 ksi 485 mpa minimum tensile strength note the grades covered by this specification represent materials that are suitable for assembly with other steel castings or wrought steel parts by fusion welding