

Chapter 1

Introduction to Differential Equations

1.1 Definitions and Terminology

1. Second order; linear
2. Third order; nonlinear because of $(dy/dx)^4$
3. Fourth order; linear
4. Second order; nonlinear because of $\cos(r+u)$
5. Second order; nonlinear because of $(dy/dx)^2$ or $\sqrt{1+(dy/dx)^2}$
6. Second order; nonlinear because of R^2
7. Third order; linear
8. Second order; nonlinear because of x^2
9. Writing the differential equation in the form $x(dy/dx) + y^2 = 1$, we see that it is nonlinear in y because of y^2 . However, writing it in the form $(y^2 - 1)(dx/dy) + x = 0$, we see that it is linear in x .
10. Writing the differential equation in the form $u(dx/du) + (1+u)v = ue^{2u}$ we see that it is linear in v . However, writing it in the form $(v + uv - ue^{2u})(du/dv) + u = 0$, we see that it is nonlinear in u .
11. From $y = e^{-x/2}$ we obtain $y' = -\frac{1}{2}e^{-x/2}$. Then $2y' + y = -e^{-x/2} + e^{-x/2} = 0$.
12. From $y = \frac{6}{5} - \frac{6}{5}e^{-20x}$ we obtain $dy/dt = 24e^{-20x}$, so that

$$\frac{dy}{dt} + 20y = 24e^{-20x} + 20\left(\frac{6}{5} - \frac{6}{5}e^{-20x}\right) = 24.$$
13. From $y = e^{3x} \cos 2x$ we obtain $y' = 3e^{3x} \cos 2x - 2e^{3x} \sin 2x$ and $y'' = 5e^{3x} \cos 2x - 12e^{3x} \sin 2x$, so that $y'' - 6y' + 13y = 0$.

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Boundary Value Problems for Engineers Ali Ümit Keskin, 2019-06-19 This book is designed to supplement standard texts and teaching material in the areas of differential equations in engineering, such as in Electrical, Mechanical, and Biomedical engineering. Emphasis is placed on the Boundary Value Problems that are often met in these fields. This keeps the spectrum of the book rather focussed. The book has basically emerged from the need in the author's lectures on Advanced Numerical Methods in Biomedical Engineering at Yeditepe University, and it is aimed to assist the students in solving general and application-specific problems in Science and Engineering at upper

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Sedighi, Ji-Huan He, Yusry El-Dib, Dragan Marinkovic, 2023-11-24 The most well known analytical method is the perturbation method which has led to the great discovery of Neptune in 1846 and since then mathematical prediction and empirical observation became two sides of a coin in physics However the perturbation method is based on the small parameter assumption and the obtained solutions are valid only for weakly nonlinear equations which have greatly limited their applications to modern physical problems To overcome the shortcomings many mathematicians and physicists have been extensively developing various technologies for several centuries however there is no universal method for all nonlinear

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