

Chapter 9

Differential Equations

Introduction to Differential Equations

An equation that involves an independent variable, dependent variable and differential coefficients of dependent variable with respect to the independent variable is called a **differential equation**.

e.g.,

$$(i) \quad x^2(d^2y / dx^2) + x^3 (dy / dx)^3 - 7x^2y^2$$

$$(ii) \quad (x^2 + y^2) dx = (x^2 - y^2) dy$$

Order and Degree of a Differential Equation

The order of a differential equation is the order of the highest derivative occurring in the equation. The order of a differential equation is always a positive integer.

The degree of a differential equation is the degree (exponent) of the derivative of the highest order in the equation, after the equation is free from negative and fractional powers of the derivatives.

Linear and Non-Linear Differential Equations

A differential equation is said to be linear, if the dependent variable and all of its derivatives occurring in the first power and there are no product of these. A linear equation of n th order can be written in the form

$$P_0 \frac{d^n y}{dx^n} + P_1 \frac{d^{n-1} y}{dx^{n-1}} + P_2 \frac{d^{n-2} y}{dx^{n-2}} + \dots + P_{n-1} \frac{dy}{dx} + P_n y = Q$$

where, $P_0, P_1, P_2, \dots, P_{n-1}$ and Q must be either constants or functions of x only.

A linear differential equation is always of the first degree but every differential equation of the first degree need not be linear.

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Huangqi Zhang



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Table of Contents Differential Equations Lecture Notes In Mathematics

1. Understanding the eBook Differential Equations Lecture Notes In Mathematics
 - The Rise of Digital Reading Differential Equations Lecture Notes In Mathematics
 - Advantages of eBooks Over Traditional Books
2. Identifying Differential Equations Lecture Notes In Mathematics
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Differential Equations Lecture Notes In Mathematics
 - User-Friendly Interface
4. Exploring eBook Recommendations from Differential Equations Lecture Notes In Mathematics
 - Personalized Recommendations

- Differential Equations Lecture Notes In Mathematics User Reviews and Ratings
- Differential Equations Lecture Notes In Mathematics and Bestseller Lists
- 5. Accessing Differential Equations Lecture Notes In Mathematics Free and Paid eBooks
 - Differential Equations Lecture Notes In Mathematics Public Domain eBooks
 - Differential Equations Lecture Notes In Mathematics eBook Subscription Services
 - Differential Equations Lecture Notes In Mathematics Budget-Friendly Options
- 6. Navigating Differential Equations Lecture Notes In Mathematics eBook Formats
 - ePub, PDF, MOBI, and More
 - Differential Equations Lecture Notes In Mathematics Compatibility with Devices
 - Differential Equations Lecture Notes In Mathematics Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Differential Equations Lecture Notes In Mathematics
 - Highlighting and Note-Taking Differential Equations Lecture Notes In Mathematics
 - Interactive Elements Differential Equations Lecture Notes In Mathematics
- 8. Staying Engaged with Differential Equations Lecture Notes In Mathematics
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Differential Equations Lecture Notes In Mathematics
- 9. Balancing eBooks and Physical Books Differential Equations Lecture Notes In Mathematics
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Differential Equations Lecture Notes In Mathematics
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Differential Equations Lecture Notes In Mathematics
 - Setting Reading Goals Differential Equations Lecture Notes In Mathematics
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Differential Equations Lecture Notes In Mathematics
 - Fact-Checking eBook Content of Differential Equations Lecture Notes In Mathematics

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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