EXAMPLE:

$$\frac{d^2y}{dx^2}+3\frac{d^2y}{dx^2}-4y=xe^x$$

$$\frac{d^2y}{dx^2}+3\frac{d^2y}{dx^2}-4y=0$$

$$y=u=c_1e^x+c_2e^{-2x}+c_3xe^{-2x}$$

differentiate to get $\frac{d^3y}{dx^3}+3\frac{d^2y}{dx^2}-4\frac{dy}{dx}=xe^x+e^x$

subtract to get $\frac{d^4y}{dx^4}+2\frac{d^3y}{dx^3}-3\frac{d^2y}{dx^2}-4\frac{dy}{dx}+4y=e^x$

differentiate to get $\frac{d^5y}{dx^5}+2\frac{d^4y}{dx^4}-3\frac{d^3y}{dx^3}-4\frac{d^2y}{dx^2}+4\frac{dy}{dx}=e^x$

subtract to get $\frac{d^5y}{dy^5}+\frac{d^4y}{dx^4}-5\frac{d^3y}{dx^3}-\frac{d^2y}{dx^2}+8\frac{dy}{dx}-4y=0$

let $y=e^{rx}$, *so* $r^5+r^4-5r^3-r^2+8r-4=0$

$$(r-1)(r+2)(r+2)(r-1)(r-1)=0$$

so, $y=u+v=c_1e^x+c_2e^{-2x}+c_3xe^{-2x}+c_4xe^x+c_5x^2e^x$

$$y=v=e^x\left(c_4x+c_5x^2\right)$$

differentiate to get $\frac{dy}{dx}=e^x\left(c_4+\left(c_4+2c_5\right)x+c_5x^2\right)$

$$\frac{d^2y}{dx^2}=e^x\left(2\left(c_4+c_5\right)+\left(c_4+4c_5\right)x+c_5x^2\right)$$

$$\frac{d^3y}{dx^3}=e^x\left(3c_4+6c_5+\left(c_4+6c_5\right)x+c_5x^2\right)$$

$$9c_4+12c_5+18c_5x=x$$

equate coefficients of like terms to get

$9c_4+12c_5=0$ *and* $18c_5=1$

so, $c_5=\frac{1}{18}$, $c_4=-\frac{2}{27}$

COMPLETE SOLUTION:

$$y=u+v=c_1e^x+c_2e^{-2x}+c_3xe^{-2x}-\frac{2}{27}xe^x+\frac{1}{18}x^2e^x$$

Differential Equations With Applications

Rachel Sandford

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Table of Contents Differential Equations With Applications

1. Understanding the eBook Differential Equations With Applications
    - The Rise of Digital Reading Differential Equations With Applications
    - Advantages of eBooks Over Traditional Books
2. Identifying Differential Equations With Applications
    - 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 With Applications
    - User-Friendly Interface
4. Exploring eBook Recommendations from Differential Equations With Applications
    - Personalized Recommendations
    - Differential Equations With Applications User Reviews and Ratings
    - Differential Equations With Applications and Bestseller Lists
5. Accessing Differential Equations With Applications Free and Paid eBooks

- Differential Equations With Applications Public Domain eBooks
- Differential Equations With Applications eBook Subscription Services
- Differential Equations With Applications Budget-Friendly Options

6. Navigating Differential Equations With Applications eBook Formats
   - ePub, PDF, MOBI, and More
   - Differential Equations With Applications Compatibility with Devices
   - Differential Equations With Applications Enhanced eBook Features
7. Enhancing Your Reading Experience
   - Adjustable Fonts and Text Sizes of Differential Equations With Applications
   - Highlighting and Note-Taking Differential Equations With Applications
   - Interactive Elements Differential Equations With Applications
8. Staying Engaged with Differential Equations With Applications
   - Joining Online Reading Communities
   - Participating in Virtual Book Clubs
   - Following Authors and Publishers Differential Equations With Applications
9. Balancing eBooks and Physical Books Differential Equations With Applications
   - Benefits of a Digital Library
   - Creating a Diverse Reading Collection Differential Equations With Applications
10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
11. Cultivating a Reading Routine Differential Equations With Applications
    - Setting Reading Goals Differential Equations With Applications
    - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Differential Equations With Applications
    - Fact-Checking eBook Content of Differential Equations With Applications
    - 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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