

EXAMPLE:

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

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

$$y = u = c_1 e^x + c_2 e^{-2x} + c_3 x e^{-2x}$$

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

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

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

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

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

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

so, $y = u + v = c_1 e^x + c_2 e^{-2x} + c_3 x e^{-2x} + c_4 x e^x + c_5 x^2 e^x$

$$y = v = e^x (c_4 x + c_5 x^2)$$

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

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

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

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

equate coefficients of like terms to get

$$9c_4 + 12c_5 = 0 \text{ and } 18c_5 = 1$$

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

COMPLETE SOLUTION:

$$y = u + v = c_1 e^x + c_2 e^{-2x} + c_3 x e^{-2x} - \frac{2}{27} x e^x + \frac{1}{18} x^2 e^x$$

Elements Of Differential Equations

Massachusetts Institute of Technology



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Partial Differential Equations II Yu.V. Egorov, A.I. Komech, 1999-05-20 This book the first printing of which was published as Volume 31 of the Encyclopaedia of Mathematical Sciences contains a survey of the modern theory of general linear partial differential equations and a detailed review of equations with constant coefficients Readers will be interested in an introduction to microlocal analysis and its applications including singular integral operators pseudodifferential operators Fourier integral operators and wavefronts a survey of the most important results about the mixed problem for hyperbolic equations a review of asymptotic methods including short wave asymptotics the Maslov canonical operator and spectral asymptotics a detailed description of the applications of distribution theory to partial differential equations with constant coefficients including numerous interesting special topics [Elements of the Differential and Integral Calculus](#) Albert Ensign Church, 1858 **Mathematical Aspects of Finite Elements in Partial Differential Equations** Carl de Boor, 2014-05-10 Mathematical Aspects of Finite Elements in Partial Differential Equations addresses the mathematical questions raised by the use of finite elements in the numerical solution of partial differential equations This book covers a variety of topics including finite element method hyperbolic partial differential equation and problems with interfaces Organized into 13 chapters this book begins with an overview of the class of finite element subspaces with numerical examples This text then presents as models the Dirichlet problem for the potential and bipotential operator and discusses the question of non conforming elements using the classical Ritz and least squares method Other chapters consider some error estimates for the Galerkin problem by such energy considerations This book discusses as well the spatial discretization of problem and presents the Galerkin method for ordinary differential equations using polynomials of degree k The final chapter deals with the continuous time Galerkin method for the heat equation This book is a valuable resource for mathematicians

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Mathematical Theory of Finite Elements Leszek F. Demkowicz, 2023-09-22 This book discusses the foundations of the mathematical theory of finite element methods The focus is on two subjects the concept of discrete stability and the theory of conforming elements forming the exact sequence Both coercive and noncoercive problems are discussed Following the historical path of development the author covers the Ritz and Galerkin methods to Mikhlin's theory followed by the Lax Milgram theorem and Cea's lemma to the Babuska theorem and Brezzi's theory He finishes with an introduction to the discontinuous Petrov Galerkin DPG method with optimal test functions Based on the author's personal lecture notes for a popular version of his graduate course on mathematical theory of finite elements the book includes a unique exposition of the concept of discrete stability and the means to guarantee it a coherent presentation of finite elements forming the exact grad curl div sequence and an introduction to the DPG method Intended for graduate students in computational science engineering and mathematics programs *Mathematical Theory of Finite Elements* is also appropriate for graduate mathematics and mathematically oriented engineering students Instructors will find the book useful for courses in real analysis functional analysis energy Sobolev spaces and Hilbert space methods for PDEs

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Table of Contents Elements Of Differential Equations

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

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