

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:

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

# Differential Equations With Applications And Programs

**Columbia University**



## **Differential Equations With Applications And Programs:**

**Differential Equations with Applications and Programs** S. Balachandra Rao,H. R. Anuradha,1996      **Differential Equations and Their Applications** Martin Braun,1992-12-05 Used in undergraduate classrooms across the USA this is a clearly written rigorous introduction to differential equations and their applications Fully understandable to students who have had one year of calculus this book distinguishes itself from other differential equations texts through its engaging application of the subject matter to interesting scenarios This fourth edition incorporates earlier introductory material on bifurcation theory and adds a new chapter on Sturm Liouville boundary value problems Computer programs in C Pascal and Fortran are presented throughout the text to show readers how to apply differential equations towards quantitative problems

**Differential Equations and Their Applications** M. Braun,2012-12-06 This textbook is a unique blend of the theory of differential equations and their exciting application to real world problems First and foremost it is a rigorous study of ordinary differential equations and can be fully understood by anyone who has completed one year of calculus However in addition to the traditional applications it also contains many exciting real life problems These applications are completely self contained First the problem to be solved is outlined clearly and one or more differential equations are derived as a model for this problem These equations are then solved and the results are compared with real world data The following applications are covered in this text 1 In Section 1 3 we prove that the beautiful painting Disciples of Emmaus which was bought by the Rembrandt Society of Belgium for 170 000 was a modern forgery 2 In Section 1 5 we derive differential equations which govern the population growth of various species and compare the results predicted by our models with the known values of the populations 3 In Section 1 6 we derive differential equations which govern the rate at which farmers adopt new innovations Surprisingly these same differential equations govern the rate at which technological innovations are adopted in such diverse industries as coal iron and steel brewing and railroads      **Differential Equations: Theory and Applications**

David Betounes,2009-10-31 This book provides a comprehensive introduction to the theory of ordinary differential equations with a focus on mechanics and dynamical systems as important applications of the theory The text is written to be used in the traditional way or in a more applied way In addition to its use in a traditional one or two semester graduate course in mathematics the book is organized to be used for interdisciplinary courses in applied mathematics physics and engineering

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**Research and Technology Program Digest Flash Index** ,1967 Engineering Differential Equations Bill Goodwine,2010-11-11 This book is a comprehensive treatment of engineering undergraduate differential equations as well as linear vibrations and feedback control While this material has traditionally been separated into different courses in undergraduate engineering curricula This text provides a streamlined and efficient treatment of material normally covered in three courses Ultimately engineering students study mathematics in order to be able to solve problems within the engineering realm *Engineering Differential Equations Theory and Applications* guides students to approach the mathematical theory with much greater interest and enthusiasm by teaching the theory together with applications Additionally it includes an abundance of detailed examples Appendices include numerous C and FORTRAN example programs This book is intended for engineering undergraduate students particularly aerospace and mechanical engineers and students in other disciplines concerned with mechanical systems analysis and control Prerequisites include basic and advanced calculus with an introduction to linear algebra **A Workbook for Differential Equations** Bernd S. W. Schröder,2009-12-02 An accessible and hands on approach to modeling and predicting real world phenomena using differential equations *A Workbook for Differential Equations* presents an interactive introduction to fundamental solution methods for ordinary differential equations The author emphasizes the importance of manually working through computations and models rather than simply reading or memorizing formulas Utilizing real world applications from spring mass systems and circuits to vibrating strings and an overview of the hydrogen atom the book connects modern research with the presented topics including first order equations constant coefficient equations Laplace transforms partial differential equations series solutions systems and numerical methods The result is a unique guide to understanding the significance of differential equations in mathematics science and engineering The workbook contains modules that involve readers in as many ways as possible and each module begins with Prerequisites and Learning Objectives sections that outline both the skills needed to understand the presented material and what new skills will be obtained by the conclusion of the module Detailed applications are intertwined in the discussion motivating the investigation of new classes of differential equations and their accompanying techniques Introductory modeling sections discuss applications and why certain known solution techniques may not be enough to

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