

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

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

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

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

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

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

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

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

COMPLETE SOLUTION:

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

# Second Course In Elementary Differential Equations

**Duke University**



## **Second Course In Elementary Differential Equations:**

*A Second Course in Elementary Differential Equations* Paul Waltman, 2004-03-23 Focusing on applicable rather than applied mathematics this text begins with an examination of linear systems of differential equations and 2 dimensional linear systems and then explores the use of polar coordinate techniques Liapunov stability and elementary ideas from dynamic systems Features an in depth treatment of existence and uniqueness theorems more 1986 edition Includes 39 figures

*A Second Course in Elementary Differential Equations* Paul Waltman, 2014-05-10 A Second Course in Elementary Differential Equations deals with norms metric spaces completeness inner products and an asymptotic behavior in a natural setting for solving problems in differential equations The book reviews linear algebra constant coefficient case repeated eigenvalues and the employment of the Putzer algorithm for nondiagonalizable coefficient matrix The text describes in geometrical and in an intuitive approach Liapunov stability qualitative behavior the phase plane concepts polar coordinate techniques limit cycles the Poincaré Bendixson theorem The book explores in an analytical procedure the existence and uniqueness theorems metric spaces operators contraction mapping theorem and initial value problems The contraction mapping theorem concerns operators that map a given metric space into itself in which where an element of the metric space  $M$  an operator merely associates with it a unique element of  $M$  The text also tackles inner products orthogonality bifurcation as well as linear boundary value problems particularly the Sturm Liouville problem The book is intended for mathematics or physics students engaged in ordinary differential equations and for biologists engineers economists or chemists who need to master the prerequisites for a graduate course in mathematics

*Elementary Differential Equations* William E. Boyce, Richard C. DiPrima, Douglas B. Meade, 2017-08-14 With Wiley's Enhanced E Text you get all the benefits of a downloadable reflowable eBook with added resources to make your study time more effective including Embedded searchable equations figures tables Math XML Index with linked pages numbers for easy reference Redrawn full color figures to allow for easier identification

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familiarity with matrices will also be helpful in the chapters on systems of differential equations      *Second Course in Ordinary Differential Equations for Scientists and Engineers* Mayer Humi, William Miller, 2012-12-06 The world abounds with introductory texts on ordinary differential equations and rightly so in view of the large number of students taking a course in this subject However for some time now there is a growing need for a junior senior level book on the more advanced topics of differential equations In fact the number of engineering and science students requiring a second course in these topics has been increasing This book is an outgrowth of such courses taught by us in the last ten years at Worcester Polytechnic Institute The book attempts to blend mathematical theory with nontrivial applications from various disciplines It does not contain lengthy proofs of mathematical theorems as this would be inappropriate for its intended audience Nevertheless in each case we motivated these theorems and their practical use through examples and in some cases an intuitive proof is included In view of this approach the book could be used also by aspiring mathematicians who wish to obtain an overview of the more advanced aspects of differential equations and an insight into some of its applications We have included a wide range of topics in order to afford the instructor the flexibility in designing such a course according to the needs of the students Therefore this book contains more than enough material for a one semester course

**Elementary Differential Equations and Boundary Value Problems** William E. Boyce, Richard C. DiPrima, Douglas B. Meade, 2017-08-21 Elementary Differential Equations and Boundary Value Problems 11e like its predecessors is written from the viewpoint of the applied mathematician whose interest in differential equations may sometimes be quite theoretical sometimes intensely practical and often somewhere in between The authors have sought to combine a sound and accurate but not abstract exposition of the elementary theory of differential equations with considerable material on methods of solution analysis and approximation that have proved useful in a wide variety of applications While the general structure of the book remains unchanged some notable changes have been made to improve the clarity and readability of basic material about differential equations and their applications In addition to expanded explanations the 11th edition includes new problems updated figures and examples to help motivate students The program is primarily intended for undergraduate students of mathematics science or engineering who typically take a course on differential equations during their first or second year of study The main prerequisite for engaging with the program is a working knowledge of calculus gained from a normal two or three semester course sequence or its equivalent Some familiarity with matrices will also be helpful in the chapters on systems of differential equations

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**MARKET** Intended for use in introductory course in differential equations

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**Bulletin (new Series) of the American Mathematical Society**, 1898 **Catalogue Number** Duke University, 1943 Includes Announcements for 1929 30 Elementary Differential Equations with Applications William R. Derrick, Stanley I. Grossman, 1981 *Mathematics Magazine*, 1987 *General catalogue, primarily for students in the Departments at Los Angeles* University of California, Los Angeles, 1952 *Calendar of the University of Queensland* University of Queensland, 1928 General Catalogue University of California, Los Angeles, 1957 **Library Recommendations for Undergraduate Mathematics** Lynn Arthur Steen, 1992

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