

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

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

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

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

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

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

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

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

RD Boyd



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, 2013-11-27

There are two major changes in the Fourth Edition of *Differential Equations and Their Applications*. The first concerns the computer programs in this text. In keeping with recent trends in computer science we have replaced all the APL programs with Pascal and C programs. The Pascal programs appear in the text in place of the APL programs where they are followed by the Fortran programs while the C programs appear in Appendix C. Mathematics is playing an ever more important role in the physical and biological sciences provoking a blurring of boundaries between scientific disciplines and a resurgence of interest in the modern as well as the classical techniques of applied mathematics. This renewal of interest both in research and teaching has led to the establishment of the series *Texts in Applied Mathematics* (TAM). The development of new courses is a natural consequence of a high level of excitement on the research frontiers. Newer techniques such as numerical and symbolic computer systems, dynamical systems and chaos mix with and reinforce the traditional methods of applied mathematics. Thus the purpose of this textbook series is to meet the current and future needs of these advances and encourage the teaching of new courses. TAM will publish textbooks suitable for use in advanced undergraduate and beginning graduate courses and will complement the *Applied Mathematical Sciences* (AMS) series which will focus on advanced textbooks and research level monographs.

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

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

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

Peterson's Graduate Programs Programs in Mathematics 2011 Peterson's,2011-05-01 Peterson s Graduate Programs in Mathematics contains a wealth of information on colleges and universities that offer graduate work in Applied Mathematics Applied Statistics Biomathematics Biometry Biostatistics Computational Sciences Mathematical and Computational Finance Mathematics and Statistics The institutions listed include those in the United States Canada and abroad that are accredited by U S accrediting bodies Up to date information collected through Peterson s Annual Survey of Graduate and Professional Institutions provides valuable information on degree offerings professional accreditation jointly offered degrees part time and evening weekend programs postbaccalaureate distance degrees faculty students degree requirements entrance requirements expenses financial support faculty research and unit head and application contact information Readers will find helpful links to in depth descriptions that offer additional detailed information about a specific program or department faculty members and their research and much more In addition there are valuable articles on financial assistance the graduate admissions process advice for international and minority students and facts about accreditation with a current list of accrediting agencies

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