

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:

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

# Methods Classifications Of Differential Equations

**Philip McCord Morse, Herman  
Feshbach**



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*Numerical Methods for Engineers and Scientists Using MATLAB®* Ramin S. Esfandiari, 2017-04-25 This book provides a pragmatic methodical and easy to follow presentation of numerical methods and their effective implementation using MATLAB which is introduced at the outset The author introduces techniques for solving equations of a single variable and systems of equations followed by curve fitting and interpolation of data The book also provides detailed coverage of numerical differentiation and integration as well as numerical solutions of initial value and boundary value problems The author then presents the numerical solution of the matrix eigenvalue problem which entails approximation of a few or all eigenvalues of a matrix The last chapter is devoted to numerical solutions of partial differential equations that arise in engineering and science Each method is accompanied by at least one fully worked out example showing essential details involved in preliminary hand calculations as well as computations in MATLAB

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Braga da Costa Campos, 2019-11-05 Classification and Examples of Differential Equations and their Applications is the sixth book within Ordinary Differential Equations with Applications to Trajectories and Vibrations Six volume Set As a set they are the fourth volume in the series Mathematics and Physics Applied to Science and Technology This sixth book consists of one chapter chapter 10 of the set It contains 20 examples related to the preceding five books and chapters 1 to 9 of the set It includes two recollections the first with a classification of differential equations into 500 standards and the second with a list of 500 applications The ordinary differential equations are classified in 500 standards concerning methods of solution and related properties including i linear differential equations with constant or homogeneous coefficients and finite difference equations ii linear and non linear single differential equations and simultaneous systems iii existence unicity and other properties iv derivation of general particular special analytic regular irregular and normal integrals v linear differential equations with variable coefficients including known and new special functions The theory of differential equations is applied to the detailed solution of 500 physical and engineering problems including i one and multidimensional oscillators with damping or amplification with non resonant or resonant forcing ii single non linear and parametric resonance iii bifurcations and chaotic dynamical systems iv longitudinal and transversal deformations and buckling of bars beams and plates v trajectories of particles vi oscillations and waves in non uniform media ducts and wave guides Provides detailed solution of examples of differential equations of the types covered in tomes 1 5 of the set Ordinary Differential Equations with Applications to Trajectories and Vibrations Six volume Set Includes physical and engineering problems that extend those presented in the tomes 1 6 Ordinary Differential Equations with Applications to Trajectories and Vibrations Six volume Set Includes a classification of ordinary differential equations and their properties into 500 standards that can serve as a look up table of methods of solution Covers a recollection of 500 physical and engineering problems and sub cases that involve the solution of differential equations Presents the problems used as examples including formulation solution and interpretation of results

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