

CHAPTER 1
ELIMINATION OF ARBITRARY CONSTANTS

1. $x^2 - 2x^2y = c$

$$2x^2 dx - 2x^2 dy - 2y(2x) dx = 0$$

$$2x^2 dx - 4xy dx - 2x^2 dy = 0$$

divide by $2x^2$

$$dx - 2y dx - dy = 0$$

$$\therefore (1 - 2y) dx - dy = 0 \quad \text{ans.}$$

2. $y \sin x - xy^2 = 0$

$$y(\cos x dx) + \sin x dy - dy dy = 0$$

$$- y^2 dx = 0$$

$$y(\cos x dx) - y^2 dx + \sin x dy - dy dy = 0$$

$$y(\cos x - y) dx + (\sin x - 2y) dy = 0$$

ans.

3. $x^2 y = 1 + Cx$

$$x^2 dy + 2xy dx = 0 + C dx$$

divide by dx

$$\frac{d^2 y}{dx^2} + 2xy = C$$

substitute

$$x^2 y = 1 + Cx \Rightarrow \left[x^2 \frac{d^2 y}{dx^2} + 2xy \right] x$$

$$x^3 y = 1 + x^2 \frac{d^2 y}{dx^2} + 2x^2 y$$

$$x^3 y dx = dx + x^3 dy + 2x^3 y dx$$

$$dx + x^3 dy + 2x^3 y dx = 0$$

$$\therefore dx + x^3 dy + x^3 y dx = 0$$

$$\therefore (x^3 y + 1) dx + x^3 dy = 0 \quad \text{ans.}$$

4. $cy^2 = x^2 + y$

$$\frac{x^2 + y}{y^2} = C$$

$$\frac{x^2(2x dx + dy) - (x^2 + y)dy}{(y^2)^2} = 0$$

$$2xy^2 dx + x^2 dy - 2y^2 dy - dy dy = 0$$

divide by y

$$2xy dx + x^2 dy - 2y dy - dy dy = 0$$

$$\therefore 2xy dx - 2y dy + x^2 dy = 0$$

ans.

5. $x = A \sin(\omega t + \phi)$; ω is a parameter not to be elim.

$$\frac{dx}{dt} = A \omega \cos(\omega t + \phi)$$

$$\frac{d^2 x}{dt^2} = A \omega^2 [-\sin(\omega t + \phi)]$$

$$= -A \omega^2 \sin(\omega t + \phi)$$

$$\text{but } x = A \sin(\omega t + \phi)$$

$$\frac{d^2 x}{dt^2} = -\omega^2 x$$

$$\therefore \frac{d^2 x}{dt^2} + \omega^2 x = 0 \quad \text{ans.}$$

6. $x = C_1 \cos \omega t + C_2 \sin \omega t$
Let ω be parameter.

$$\frac{dx}{dt} = -C_1 \omega \sin \omega t + C_2 \omega \cos \omega t$$

$$\frac{d^2 x}{dt^2} = -C_1 \omega^2 \cos \omega t - C_2 \omega^2 \sin \omega t$$

$$= -\omega^2 (C_1 \cos \omega t + C_2 \sin \omega t)$$

$$= -\omega^2 x$$

$$\frac{d^2 x}{dt^2} + \omega^2 x = 0 \quad \text{ans.}$$

7. $y = Cx + C^2 + 1$

$$y' = C + 2C \Rightarrow C = \frac{y' - 1}{2}$$

$$\therefore y = \left(\frac{y' - 1}{2} \right) x + \left(\frac{y' - 1}{2} \right)^2 + 1 \quad \text{ans.}$$

8. $y = mx + \frac{1}{m^2}$; m is a parameter, so to be eliminated.

$$y' = m + 0 \Rightarrow m = y'$$

$$\therefore y = y'x + \frac{1}{y'^2} \quad \text{ans.}$$

9. $y^2 = 4ax$

$$2y dy = 4a dx$$

$$\therefore dy = \frac{2a dx}{y}$$

substitute,

$$y^2 = \left(\frac{2a dx}{y} \right) x$$

$$y^3 dx = 2axy$$

$$\therefore y^3 dx - 2axy = 0 \quad \text{ans.}$$

10. $y = 4x^2 + bx + c$

$$y' = 8x + b \Rightarrow b = y' - 8x$$

$$y'' = 8 \Rightarrow 0$$

$$y'' = 0 \quad \text{ans.}$$

Rainville Solution Manual

Wolfgang Guggemos



Rainville Solution Manual:

Ordinary Differential Equations and Their Solutions George Moseley Murphy, 2011-01-01 This treatment presents most of the methods for solving ordinary differential equations and systematic arrangements of more than 2 000 equations and their solutions The material is organized so that standard equations can be easily found Plus the substantial number and variety of equations promises an exact equation or a sufficiently similar one 1960 edition **The American Mathematical Monthly** ,1981 **Subject Catalog of the Institute of Governmental Studies Library, University of California, Berkeley** University of California, Berkeley. Institute of Governmental Studies. Library, 1971 **Decisions and Orders of the National Labor Relations Board** United States. National Labor Relations Board, 2007 **Decisions and Orders of the National Labor Relations Board, V. 345, August 19 Through December 9, 2005** , **Moody's Manual of Railroads and Corporation Securities** ,1914 **Notices of the American Mathematical Society** American Mathematical Society, 1981 **Technical Bulletin** ,1962 *Clearwater National Forest (N.F.), Van Camp Timber Sales and Winter Range Improvements* ,1994 Moody's Manual of Investments and Security Rating Service ,1927 **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office, 1967 Includes Part 1 Number 1 Books and Pamphlets Including Serials and Contributions to Periodicals January June **Modeling with Differential Equations in Chemical Engineering** Stanley M. Walas, 1991 Modelling with Differential Equations in Chemical Engineering covers the modelling of rate processes of engineering in terms of differential equations While it includes the purely mathematical aspects of the solution of differential equations the main emphasis is on the derivation and solution of major equations of engineering and applied science Methods of solving differential equations by analytical and numerical means are presented in detail with many solved examples and problems for solution by the reader Emphasis is placed on numerical and computer methods of solution A key chapter in the book is devoted to the principles of mathematical modelling These principles are applied to the equations in important engineering areas The major disciplines covered are thermodynamics diffusion and mass transfer heat transfer fluid dynamics chemical reactions and automatic control These topics are of particular value to chemical engineers but also are of interest to mechanical civil and environmental engineers as well as applied scientists The material is also suitable for undergraduate and beginning graduate students as well as for review by practising engineers

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