97

Solving for  $\int e^{it\cdot kt} \cos 2t \, dt$ , we have

$$\int e^{(0.4s)} \cos 2r \, dx = \frac{5 e^{(0.4s)} \cos 2r + 25 e^{(0.4s)} \sin 2s}{52}.$$

To obtain the general solution, we multiply this integral by 3, add the constant of integration, and solve for v. We obtain the general solution

$$v(t) = ke^{-0.4t} + \frac{15}{52}\cos 2t + \frac{75}{52}\sin 2t$$
.

(b) The solution of the associated homogeneous equation is

$$v_N(t) = e^{-0.4t}$$
.

We guess

$$v_{\mathcal{P}}(t) = \alpha \cos 2t + \beta \sin 2t$$

for the a solution to the nonhomogeneous equation and solve for  $\alpha$  and  $\beta$ . Substituting this guess into the differential equation, we obtain

$$-2\alpha \sin 2t + 2\beta \cos 2t + 0.4\alpha \cos 2t + 0.4\beta \sin 2t = 3\cos 2t$$
.

Collecting sine and cosine terms, we get the system of equations

$$\begin{cases}
-2\alpha + 0.4\beta = 0 \\
0.4\alpha + 2\beta = 3.
\end{cases}$$

Using the fact that 0.4 = 2/5, we solve this system of equations and obtain

$$\alpha = \frac{12}{15}$$
 and  $\beta = \frac{25}{15}$ .

The general solution of the original nonhomogeneous equation is

$$v(r) = ke^{-0.4r} + \frac{15}{12}\cos 2r + \frac{25}{12}\sin 2r.$$

Both methods require quite a bit of computation. If we use an integrating factor, we must do a complicated integral, and if we use the guessing technique, we have to be careful with our algebra.

22. (a) Note that

$$\frac{d\mu}{dr} = \mu(t)(-\alpha(t))$$

by the Fundamental Theorem of Calculus. Therefore, if we rewrite the differential equation as

$$\frac{dy}{dt} - a(t)y = b(t)$$

and multiply the left-hand side of this equation by  $\mu(t)$ , the left-hand side becomes

$$\begin{split} \mu(t)\frac{dy}{dt} - \mu(t)a(t)y &= \mu(t)\frac{dy}{dt} + \frac{d\mu}{dt}y \\ &= \frac{d(\mu,y)}{dt}. \end{split}$$

Consequently, the function  $\mu(t)$  satisfies the requirements of an integrating factor.

# **Solution Manual For Differential Equations Paul Blanchard**

S. J. Farlow

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## **Table of Contents Solution Manual For Differential Equations Paul Blanchard**

- 1. Understanding the eBook Solution Manual For Differential Equations Paul Blanchard
  - The Rise of Digital Reading Solution Manual For Differential Equations Paul Blanchard
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Solution Manual For Differential Equations Paul Blanchard
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - o Features to Look for in an Solution Manual For Differential Equations Paul Blanchard
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Solution Manual For Differential Equations Paul Blanchard
  - Personalized Recommendations
  - Solution Manual For Differential Equations Paul Blanchard User Reviews and Ratings
  - Solution Manual For Differential Equations Paul Blanchard and Bestseller Lists

- 5. Accessing Solution Manual For Differential Equations Paul Blanchard Free and Paid eBooks
  - Solution Manual For Differential Equations Paul Blanchard Public Domain eBooks
  - Solution Manual For Differential Equations Paul Blanchard eBook Subscription Services
  - Solution Manual For Differential Equations Paul Blanchard Budget-Friendly Options
- 6. Navigating Solution Manual For Differential Equations Paul Blanchard eBook Formats
  - ∘ ePub, PDF, MOBI, and More
  - Solution Manual For Differential Equations Paul Blanchard Compatibility with Devices
  - Solution Manual For Differential Equations Paul Blanchard Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Solution Manual For Differential Equations Paul Blanchard
  - Highlighting and Note-Taking Solution Manual For Differential Equations Paul Blanchard
  - Interactive Elements Solution Manual For Differential Equations Paul Blanchard
- 8. Staying Engaged with Solution Manual For Differential Equations Paul Blanchard
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Solution Manual For Differential Equations Paul Blanchard
- 9. Balancing eBooks and Physical Books Solution Manual For Differential Equations Paul Blanchard
  - Benefits of a Digital Library
  - o Creating a Diverse Reading Collection Solution Manual For Differential Equations Paul Blanchard
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Solution Manual For Differential Equations Paul Blanchard
  - Setting Reading Goals Solution Manual For Differential Equations Paul Blanchard
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Solution Manual For Differential Equations Paul Blanchard
  - Fact-Checking eBook Content of Solution Manual For Differential Equations Paul Blanchard
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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