

MODERN DIFFERENTIAL EQUATIONS

Abstract



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ABELL & BRASELTON

Harcourt
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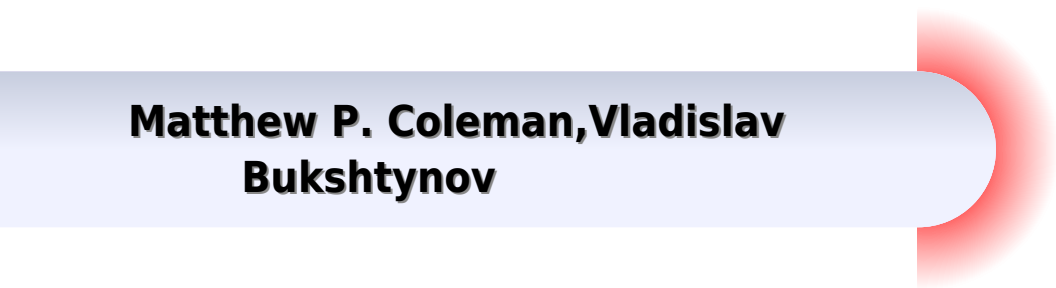
[illegible]

$$\begin{aligned} \int \frac{dx}{x^2 + 2x + 5} &= \int \frac{dx}{(x+1)^2 + 4} = \frac{1}{2} \int \frac{dx}{\left(\frac{x+1}{2}\right)^2 + 1} = \frac{1}{2} \int \frac{du}{u^2 + 1} = \frac{1}{2} \tan^{-1} u + C \\ &= \frac{1}{2} \tan^{-1} \frac{x+1}{2} + C \\ \int \frac{dx}{x^2 + 2x + 1} &= \int \frac{dx}{(x+1)^2} = -\frac{1}{x+1} + C \\ \int \frac{dx}{x^2 + 2x + 2} &= \int \frac{dx}{(x+1)^2 + 1} = \int \frac{du}{u^2 + 1} = \tan^{-1} u + C \\ &= \tan^{-1} (x+1) + C \\ \int \frac{dx}{x^2 + 2x + 3} &= \int \frac{dx}{(x+1)^2 + 2} = \frac{1}{\sqrt{2}} \int \frac{du}{u^2 + 1} = \frac{1}{\sqrt{2}} \tan^{-1} u + C \\ &= \frac{1}{\sqrt{2}} \tan^{-1} (x+1) + C \\ \int \frac{dx}{x^2 + 2x + 4} &= \int \frac{dx}{(x+1)^2 + 3} = \frac{1}{\sqrt{3}} \int \frac{du}{u^2 + 1} = \frac{1}{\sqrt{3}} \tan^{-1} u + C \\ &= \frac{1}{\sqrt{3}} \tan^{-1} (x+1) + C \\ \int \frac{dx}{x^2 + 2x + 5} &= \int \frac{dx}{(x+1)^2 + 4} = \frac{1}{2} \int \frac{du}{u^2 + 1} = \frac{1}{2} \tan^{-1} u + C \\ &= \frac{1}{2} \tan^{-1} (x+1) + C \\ \int \frac{dx}{x^2 + 2x + 6} &= \int \frac{dx}{(x+1)^2 + 5} = \frac{1}{\sqrt{5}} \int \frac{du}{u^2 + 1} = \frac{1}{\sqrt{5}} \tan^{-1} u + C \\ &= \frac{1}{\sqrt{5}} \tan^{-1} (x+1) + C \\ \int \frac{dx}{x^2 + 2x + 7} &= \int \frac{dx}{(x+1)^2 + 6} = \frac{1}{\sqrt{6}} \int \frac{du}{u^2 + 1} = \frac{1}{\sqrt{6}} \tan^{-1} u + C \\ &= \frac{1}{\sqrt{6}} \tan^{-1} (x+1) + C \end{aligned}$$

1. $\int \frac{1}{\sqrt{a^2 - x^2}} dx = \arcsin \frac{x}{a} = \arcsin \sqrt{1 - \frac{a^2 - x^2}{a^2}} = C$
2. $\int \frac{1}{\sqrt{x^2 - a^2}} dx = -\arcsin \frac{a}{\sqrt{x^2 - a^2}} = C$
3. $\int \sqrt{a^2 - x^2} dx = \frac{a^2}{2} \arcsin \frac{x}{a} - \frac{a^2}{2} \cos^2 \arcsin \frac{x}{a} = \frac{a^2}{2} \arcsin \frac{x}{a} - \frac{a^2}{2} \sin^2 \arcsin \frac{x}{a} = C$
4. $\int x \sqrt{a^2 - x^2} dx = -\frac{1}{3} \sin^3 \arcsin \frac{x}{a} = -\frac{1}{3} \left(\sin \arcsin \frac{x}{a} \right)^3 = C$
5. $\int \cos^2 \arcsin \frac{x}{a} dx = \arcsin \frac{x}{a} - \frac{1}{2} \arcsin^2 \frac{x}{a} = C$
6. $\int \sin^2 \arcsin \frac{x}{a} dx = C$
7. $\int \frac{x^2}{\sqrt{a^2 - x^2}} dx = \arcsin \frac{x}{a} - \frac{1}{2} \arcsin^2 \frac{x}{a} = C$
8. $\int \frac{x^2}{\sqrt{x^2 - a^2}} dx = \arcsin \frac{a}{\sqrt{x^2 - a^2}} = C$
9. $\int \frac{x^2}{\sqrt{x^2 + a^2}} dx = \arcsin \frac{a}{\sqrt{x^2 + a^2}} = C$
10. $\int \frac{x^2}{\sqrt{x^2 + a^2}} dx = \arcsin \frac{a}{\sqrt{x^2 + a^2}} = C$
11. $\int \frac{x^2}{\sqrt{x^2 + a^2}} dx = \arcsin \frac{a}{\sqrt{x^2 + a^2}} = C$
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15. $\int \frac{x^2}{\sqrt{x^2 + a^2}} dx = \arcsin \frac{a}{\sqrt{x^2 + a^2}} = C$
16. $\int \frac{x^2}{\sqrt{x^2 + a^2}} dx = \arcsin \frac{a}{\sqrt{x^2 + a^2}} = C$
17. $\int \frac{x^2}{\sqrt{x^2 + a^2}} dx = \arcsin \frac{a}{\sqrt{x^2 + a^2}} = C$
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19. $\int \frac{x^2}{\sqrt{x^2 + a^2}} dx = \arcsin \frac{a}{\sqrt{x^2 + a^2}} = C$
20. $\int \frac{x^2}{\sqrt{x^2 + a^2}} dx = \arcsin \frac{a}{\sqrt{x^2 + a^2}} = C$

Manual Modern Differential Equations Second Edition 2015

**Matthew P. Coleman, Vladislav
Bukshtynov**



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Table of Contents Manual Modern Differential Equations Second Edition 2015

1. Understanding the eBook Manual Modern Differential Equations Second Edition 2015
 - The Rise of Digital Reading Manual Modern Differential Equations Second Edition 2015
 - Advantages of eBooks Over Traditional Books
2. Identifying Manual Modern Differential Equations Second Edition 2015
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Manual Modern Differential Equations Second Edition 2015
 - User-Friendly Interface
4. Exploring eBook Recommendations from Manual Modern Differential Equations Second Edition 2015
 - Personalized Recommendations
 - Manual Modern Differential Equations Second Edition 2015 User Reviews and Ratings

- Manual Modern Differential Equations Second Edition 2015 and Bestseller Lists
- 5. Accessing Manual Modern Differential Equations Second Edition 2015 Free and Paid eBooks
 - Manual Modern Differential Equations Second Edition 2015 Public Domain eBooks
 - Manual Modern Differential Equations Second Edition 2015 eBook Subscription Services
 - Manual Modern Differential Equations Second Edition 2015 Budget-Friendly Options
- 6. Navigating Manual Modern Differential Equations Second Edition 2015 eBook Formats
 - ePub, PDF, MOBI, and More
 - Manual Modern Differential Equations Second Edition 2015 Compatibility with Devices
 - Manual Modern Differential Equations Second Edition 2015 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Manual Modern Differential Equations Second Edition 2015
 - Highlighting and Note-Taking Manual Modern Differential Equations Second Edition 2015
 - Interactive Elements Manual Modern Differential Equations Second Edition 2015
- 8. Staying Engaged with Manual Modern Differential Equations Second Edition 2015
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Manual Modern Differential Equations Second Edition 2015
- 9. Balancing eBooks and Physical Books Manual Modern Differential Equations Second Edition 2015
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Manual Modern Differential Equations Second Edition 2015
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Manual Modern Differential Equations Second Edition 2015
 - Setting Reading Goals Manual Modern Differential Equations Second Edition 2015
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Manual Modern Differential Equations Second Edition 2015
 - Fact-Checking eBook Content of Manual Modern Differential Equations Second Edition 2015
 - 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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