

BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
DEPARTMENT OF APPLIED MATHEMATICS

MA 1201 Engineering Mathematics

2015 -16

Tutorial Sheet No. 2

Module IV:

1. Define Gamma function, and establish a Reduction formula for $\Gamma(n)$.
2. Define Beta function and Prove that it is symmetric about m & n.

3. Prove that $\int_0^{\pi/2} \sin^m \theta \cos^n \theta d\theta = \frac{\Gamma\left(\frac{m+1}{2}\right)\Gamma\left(\frac{n+1}{2}\right)}{2\Gamma\left(\frac{m+n+2}{2}\right)}$ and hence find the value of

$$\Gamma\left(\frac{1}{2}\right)$$

4. Show that :

$$i) \int_0^{\pi/2} \sqrt{\tan \theta} d\theta = \int_0^{\pi/2} \sqrt{\cot \theta} d\theta = \frac{\pi}{\sqrt{2}} \quad ii) \int_0^1 \frac{x^2 dx}{\sqrt{1-x^4}} \times \int_0^1 \frac{dx}{\sqrt{1+x^4}} = \frac{\pi}{4\sqrt{2}}$$

$$iii) \int_0^{\infty} x^2 e^{-x^2} dx \times \int_0^{\infty} e^{-x^2} dx = \frac{\pi}{8\sqrt{2}} \quad iv) \int_0^{\pi/2} \frac{d\theta}{\sqrt{\sin \theta}} \times \int_0^{\pi/2} \sqrt{\sin \theta} d\theta = \pi$$

$$v) \int_0^1 y^{p-1} \left(\log \frac{1}{y} \right)^{q-1} dy = \frac{\Gamma(p)\Gamma(q)}{q^p} \text{ where } p>0, q>0 \quad vi) \int_0^2 (8-x^3)^3 dx = \frac{1}{60}$$

5. Prove that $B(m, n) = \frac{\Gamma(m)\Gamma(n)}{\Gamma(m+n)}$

6. Show that $\Gamma(m)\Gamma\left(m + \frac{1}{2}\right) = \frac{\sqrt{\pi}}{2^{2m-1}} \Gamma(2m)$ where m is positive

7. Prove that $B(m, n) = B(m+1, n) + B(m, n+1)$

8. Prove that $B(n, m) = \int_0^1 \frac{y^{m-1} dy}{(1+y)^{m+n}}$

Advanced Engineering Mathematics Problems Solution

S. Graham Kelly



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Advanced Engineering Mathematics with Modeling Applications S. Graham Kelly,2008-12-05 A graduate level text this book presents a unique combination of theoretical mathematics and engineering applications It demonstrates the relationship between advanced mathematics and engineering principles introduces engineering mathematics at a theoretical level and includes functional analysis topics such as vector spaces inner products and norms and develops advanced mathematical methods from this foundation The author does not focus on proving theorems but on the application of the theorems to the solution of engineering problems In sum the book provides an overview of the principles and techniques of advanced mathematics as applied to mechanical engineering problems

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Applied Engineering Analysis Tai-Ran Hsu,2018-04-30 A resource book applying mathematics to solve engineering problems Applied Engineering Analysis is a concise textbookwhich demonstrates how toapply mathematics to solve engineering problems It begins with an overview of engineering analysis and an introduction to mathematical modeling followed by vector calculus matrices and linear algebra and applications of first and second order differential equations Fourier series and Laplace transform are also covered along with partial differential equations numerical solutions to nonlinear and differential equations and an introduction to finite element analysis The book also covers statistics with applications to design and statistical process controls Drawing on the author s extensive industry and teaching experience spanning 40 years the book takes a pedagogical approach and includes examples case studies and end of chapter problems It is also accompanied by a website hosting a solutions manual and PowerPoint slides for instructors Key features Strong emphasis on deriving equations not just solving given equations for the solution of engineering problems Examples and problems of a practical nature with illustrations to enhance student s self learning Numerical methods and techniques including finite element analysis Includes coverage of statistical methods for probabilistic design analysis of structures and statistical process control SPC Applied

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Table of Contents Advanced Engineering Mathematics Problems Solution

1. Understanding the eBook Advanced Engineering Mathematics Problems Solution
 - The Rise of Digital Reading Advanced Engineering Mathematics Problems Solution
 - Advantages of eBooks Over Traditional Books
2. Identifying Advanced Engineering Mathematics Problems Solution
 - 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 Advanced Engineering Mathematics Problems Solution
 - User-Friendly Interface
4. Exploring eBook Recommendations from Advanced Engineering Mathematics Problems Solution
 - Personalized Recommendations
 - Advanced Engineering Mathematics Problems Solution User Reviews and Ratings
 - Advanced Engineering Mathematics Problems Solution and Bestseller Lists
5. Accessing Advanced Engineering Mathematics Problems Solution Free and Paid eBooks
 - Advanced Engineering Mathematics Problems Solution Public Domain eBooks
 - Advanced Engineering Mathematics Problems Solution eBook Subscription Services

- Advanced Engineering Mathematics Problems Solution Budget-Friendly Options
- 6. Navigating Advanced Engineering Mathematics Problems Solution eBook Formats
 - ePub, PDF, MOBI, and More
 - Advanced Engineering Mathematics Problems Solution Compatibility with Devices
 - Advanced Engineering Mathematics Problems Solution Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Advanced Engineering Mathematics Problems Solution
 - Highlighting and Note-Taking Advanced Engineering Mathematics Problems Solution
 - Interactive Elements Advanced Engineering Mathematics Problems Solution
- 8. Staying Engaged with Advanced Engineering Mathematics Problems Solution
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Advanced Engineering Mathematics Problems Solution
- 9. Balancing eBooks and Physical Books Advanced Engineering Mathematics Problems Solution
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Advanced Engineering Mathematics Problems Solution
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Advanced Engineering Mathematics Problems Solution
 - Setting Reading Goals Advanced Engineering Mathematics Problems Solution
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Advanced Engineering Mathematics Problems Solution
 - Fact-Checking eBook Content of Advanced Engineering Mathematics Problems Solution
 - 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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