

**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 :

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

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

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

**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, Student Solutions Manual and Study Guide](#) Erwin Kreyszig, 2006-10-06 This market leading text is known for its comprehensive coverage careful and correct mathematics outstanding exercises and self contained subject matter parts for maximum flexibility Thoroughly updated and streamlined to reflect new developments in the field the ninth edition of this bestselling text features modern engineering applications and the uses of technology Kreyszig introduces engineers and computer scientists to advanced math topics as they relate to practical problems The

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**Advanced Engineering Mathematics, Student Solutions Manual** Alan Jeffrey, 2001-07-19 This is the Student Solution Manual for Advanced Engineering Mathematics by Alan Jeffrey. The textbook not provided with this purchase provides comprehensive and contemporary coverage of key mathematical ideas, techniques, and their widespread applications for students majoring in engineering, computer science, mathematics, and physics. Using a wide range of examples throughout the book, Jeffrey illustrates how to construct simple mathematical models, how to apply mathematical reasoning to select a particular solution from a range of possible alternatives, and how to determine which solution has physical significance. Jeffrey includes material that is not found in works of a similar nature, such as the use of the matrix exponential when solving systems of ordinary differential equations. The text provides many detailed worked examples following the introduction of each new idea, and large problem sets provide both routine practice and, in many cases, greater challenge and insight for students. Most chapters end with a set of computer projects that require the use of any CAS, such as Maple or Mathematica, that reinforce ideas and provide insight into more advanced problems.

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Advanced Engineering Mathematics Clarence Raymond Wylie, Louis C. Barrett, 1995 This text aims to provide students in engineering

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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.

**Advanced Engineering Mathematics** Warren S. Wright, Carol D. Wright, 2010-04-28 The Student Solutions Manual To Accompany Advanced Engineering Mathematics Fourth Edition Is Designed To Help You Get The Most Out Of Your Advanced Engineering Mathematics Class. It Provides The Answers To Every Third Exercise From Each Chapter In Your Textbook. This Enables You To Assess Your Progress And Understanding. While Encouraging You To Find Solutions On Your Own, Students Use This Tool To Check Answers To Selected Exercises. Confirm That You Understand Ideas And Concepts, Review Past Material, Prepare For Future Material, Get The Most Out Of Your Advanced Engineering Mathematics Class And Improve Your Grades With Your Student Solutions Manual.

Advanced Engineering Mathematics : Answers to Even-Numbered Problems Erwin Kreyszig, 1967

Applied Engineering Analysis Tai-Ran Hsu, 2018-04-30 A resource book applying mathematics to solve engineering problems. Applied Engineering Analysis is a concise textbook which demonstrates how to apply 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.

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