

POKHARA UNIVERSITY

Level: Bachelor
Semester: Fall
Program: BE
Course: Engineering Mathematics I
Year: 2019
Full Marks: 100
Pass Marks: 45
Time: 1 Hour

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks except all the questions.

1. State Leibnitz's theorem for successive derivative of product of two functions $y = u \cdot v$. If $y = (x + \sqrt{1+x^2})^2$, show that

$$(1+x^2)y_{n+1} + (2n+1)xy_n + (n^2-n^2)y_{n-1} = 0$$

OR

$$\text{Show that the function } f(x) = \begin{cases} x & \text{for } x < 1 \\ 2-x & \text{for } 1 \leq x \leq 2 \\ x - \frac{x^2}{2} & \text{for } x > 2 \end{cases}$$

is continuous at $x=1$ & $x=2$. Does $f'(x)$ exists at these points.

2. State Rolle's theorem with its geometrical meaning. Also verify the theorem for the function $f(x) = (x-a)^n (x-b)^n$

3. a) Use L'Hospital rule, Prove that: $\lim_{x \rightarrow 0} (\sec x)^{\tan x} = 1$

- b) Find the asymptotes of given curve $x^2(y^2-x^2)(x^2+y^2)=0$

OR

Find the total surface area of the right circular cylinder of greatest volume that can be inscribed in a given sphere of radius r .

4. Integrate (May 2008)

$$\int \frac{dx}{1+\sin x}$$

$$\int \frac{dx}{x + \sqrt{a^2 - x^2}}$$

$$c) \int \frac{dx}{(1-x^2)^2}$$

$$d) \int x^2 dx \quad (\text{by summation})$$

4. a) Find the area between the curves $x = y^2$ and $2y^2 = x+1$

OR

Show that the volume of sphere of radius r is $\frac{4}{3}\pi r^3$

- b) Find the approximate area using Simpson's and Trapezoidal rule for the area bounded by the curve $y = \sin x$, the x -axis and the lines $x = \pi/2$ and $x = 3\pi/2$ (using $n = 4$) and compare these results with exact value.

$$\int_{\pi/2}^{3\pi/2} y \sin x dx$$

Obtain the reduction formula for $\int \cot^n x dx$ and evaluate $\int \cot^3 x dx$

5. a) Define eccentricity of a conic section, and derive the equation of a hyperbola in its standard form. $\frac{x^2}{a^2} - \frac{y^2}{b^2} = 1$

- b) Find the equation of tangent to the ellipse $\frac{x^2}{4} + \frac{y^2}{9} = 1$, which is parallel to the line $xy = 1$.

6. a) Define scalar and vector product of three vectors. Prove that the scalar triple product of three vectors represent the volume of parallelepiped.

What conclusion can you draw about these vectors if $\vec{a} \cdot (\vec{b} \times \vec{c}) = 0$.

b) Find the equation of the plane through $(1, 0, -1)$ and $(-1, 2, 1)$ and parallel to the line of intersection of the planes $3x + y - 2z = 0$ and $4x - y + 3z = 0$

7. Attempt All questions

- a) Find the domain and range for $y = \sqrt{4-x^2}$

- b) Find the equation of parabola having focus $(-3, 0)$ and directrix $x+5=0$

- c) If $\vec{a} = i - 2j + k$ and $\vec{b} = i + 2j + k$, find the projection of $\vec{a}$ on $\vec{b}$

- d) Evaluate $\int \tan^{-1} x$

Solution Engineering Mathematics I D C Agrwal

Dr. T. C. Gupta



Solution Engineering Mathematics I D C Agrwal:

Optimization and Management in Manufacturing Engineering Xinbao Liu, Jun Pei, Lin Liu, Hao Cheng, Mi Zhou, Panos M. Pardalos, 2017-10-02 Problems facing manufacturing clusters that intersect information technology process management and optimization within the Internet of Things IoT are examined in this book Recent advances in information technology have transformed the use of resources and data exchange often leading to management and optimization problems attributable to technology limitations and strong market competition This book discusses several problems and concepts which makes significant connections in the areas of information sharing organization management resource operations and performance assessment Geared toward practitioners and researchers this treatment deepens the understanding between resource collaborative management and advanced information technology Those in manufacturing will utilize the numerous mathematical models and methods offered to solve practical problems related to cutting stock supply chain scheduling and inventory management Academics and students with a basic knowledge of manufacturing combinatorics and linear programming will find that this discussion widens the research area of resource collaborative management and unites the fields of information technology manufacturing management and optimization Advances of DNA Computing in Cryptography Suyel Namasudra, Ganesh Chandra Deka, 2018-09-03 This book discusses the current technologies of cryptography using DNA computing Various chapters of the book will discuss the basic concepts of cryptography steganography basic concepts of DNA and DNA computing approaches of DNA computing in cryptography security attacks practical implementation of DNA computing applications of DNA computing in the cloud computing environment applications of DNA computing for big data etc It provides a judicious mix of concepts solved examples and real life case studies *Who's who in Finance and Industry 2000-2001*, 1999 *Who's who in Finance and Industry*, 1999 **Solutions to Engineering Mathematics Vol.II** C.P. Gandhi, 2007 Advanced Modern Engineering Mathematics Solutions Manual Glyn James, 2002-06-01 Solution Manual to Engineering Mathematics N. P. Bali, Dr. Manish Goyal, C. P. Gandhi, 2010 **Solutions to Engineering Mathematics Vol. I** C.P. Gandhi, 2008 **Answers and Solutions for Advanced Engineering Mathematics** Peter V. O'Neil, 1983-01-01 *Mathematics of Engineering and Science* Mehdi Rahmani-Andebili, 2024-11-22 This study guide is designed for students taking courses in engineering mathematics and mathematical methods in science The textbook includes problems with detailed solutions to teach students the subjects in detail and partially and fully solved exercises with hints to required formulas and answers enabling students to practice independently and guiding them through problem solving procedures The material covered in the book includes complex functions complex transformations singularities of complex functions complex series Taylor and Laurent series expansions residue complex integration Fourier series half domain Fourier sine and cosine series complex Fourier series Fourier integral complex Fourier integral Fourier transform half domain Fourier sine and cosine transform and partial differential equations

Offering detailed solutions multiple problem solving methods and clear explanations of concepts this hands on tutorial will improve students problem solving skills and foster a solid understanding of engineering mathematics and mathematical methods in science Higher Mathematics for Engineering and Technology Mahir M. Sabzaliev,Ilhama M.

Sabzalieva,2018-05-03 Based on and enriched by the long term teaching experience of the authors this volume covers the major themes of mathematics in engineering and technical specialties The book addresses the elements of linear algebra and analytic geometry differential calculus of a function of one variable and elements of higher algebra On each theme the authors first present short theoretical overviews and then go on to give problems to be solved The authors provide the solutions to some typical relatively difficult problems and guidelines for solving them The authors consider the development of the self dependent thinking ability of students in the construction of problems and indicate which problems are relatively difficult The book is geared so that some of the problems presented can be solved in class and others are meant to be solved independently An extensive explanatory solution of at least one typical problem is included with emphasis on applications formulas and rules This volume is primarily addressed to advanced students of engineering and technical specialties as well as to engineers technicians and instructors of mathematics Key features Presents the theoretical background necessary for solving problems including definitions rules formulas and theorems on the particular theme Provides an extended solution of at least one problem on every theme and guidelines for solving some difficult problems Selects problems for independent study as well as those for classroom time taking into account the similarity of both sets of problems Differentiates relatively difficult problems from others for those who want to study mathematics more deeply Provides answers to the problems within the text rather than at the back of the book enabling more direct verification of problem solutions Presents a selection of problems and solutions that are very interesting not only for the students but also for professor teacher staff Student Solutions Manual to accompany Advanced Engineering Mathematics Warren S. Wright,Carol Wright,2012-10-22 The Student Solutions Manual to Accompany Advanced Engineering Mathematics Fifth Edition is designed to help you get the most out of your course Engineering Mathematics course 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 course and improve your grades with your Student Solutions Manual *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

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Applications: Vol. 2, Advanced Topics Hasan Kurtaran, 2025-10-12 This book provides a comprehensive approach to engineering mathematics concentrating on advanced topics The book is the second of two complementary textbooks Volume 2 covers analytical approximate semi analytical and numerical solution of differential equations finite element and

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Problems and Solutions in Engineering Mathematics (semi & Ii) Parti Dr. T. C. Gupta, **Solutions to Engineering Mathematics Vol - III** C.P. Gandhi,2008 **Advanced Engineering Mathematics with Mathematica** Edward B. Magrab,2020-02-26 Advanced Engineering Mathematics with Mathematica presents advanced analytical solution methods that are used to solve boundary value problems in engineering and integrates these methods with Mathematica procedures It emphasizes the Sturm Liouville system and the generation and application of orthogonal functions which are used by the separation of variables method to solve partial differential equations It introduces the relevant aspects of complex variables matrices and determinants Fourier series and transforms solution techniques for ordinary differential equations the Laplace transform and procedures to make ordinary and partial differential equations used in engineering non dimensional To show the diverse applications of the material numerous and widely varied solved boundary value problems are presented

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