



H K Das

Solved Exercise Problems
of Mathematical Physics, H K Das
Using Cauchy's Integral Formula.

EXERCISE 7.6

Evaluate the following

- $\int_C \frac{1}{z-a} dz$, where C is a simple closed curve and the point $z = a$ is
 (i) outside C ; (ii) inside C .
 Ans. (i) 0 (ii) $2\pi i$
- $\int_C \frac{z^2}{z-1} dz$, where C is the circle $|z| = 2$.
 Ans. $2\pi i$
- $\int_C \frac{\cos \pi z}{z-1} dz$, where C is the circle $|z| = 3$.
 Ans. $-2\pi i$
- $\int_C \frac{\cos \pi z^2}{(z-1)(z-2)} dz$, where C is the circle $|z| = 3$.
 Ans. $4\pi i$
- $\int_C \frac{z^{n-1}}{(z+2)^2} dz$, where C is the circle $|z| = 3$.
 Ans. $2\pi i$
- (a) $\int_C \frac{z^{n-1}}{(z+1)^2} dz$, where C is the circle $|z-1| = 2$. (A.M.I.E.T.E., Summer 2002) Ans. $\frac{2\pi i}{n}$
 (b) $\int_C \frac{3z^2+z}{z^2-1} dz$, where C is the circle $|z-1| = 1$. (A.M.I.E.T.E., Winter 2001) Ans. $4\pi i$

Hk Dass Multiple Integral Problems With Solution

Scott C. Dulebohn



Hk Dass Multiple Integral Problems With Solution:

Advanced Engineering Mathematics H K Dass, 2007-12 This book has received very good response from students and teachers within the country and abroad alike Its previous edition exhausted in a very short time I place on record my sense of gratitude to the students and teachers for their appreciation of my work which has offered me an opportunity to bring out this revised Eighteenth Edition Due to the demand of students a chapter on Linear Programming as added A large number of new examples and problems selected from the latest question papers of various engineering examinations held recently have been included to enable the students to understand the latest trend Advanced Engineering Mathematics, 23e (In accordance to the latest AICTE Pattern) H K Dass, Rajnish Verma & Rama Verma, Advanced Engineering Mathematics is a comprehensive guide to a wide range of mathematical concepts and techniques essential for various fields of study Dive into the rich collages of mathematical concepts from Partial Differentiation to the Simplex Method each chapter meticulously crafted to build your understanding and application skills Whether you are exploring the depths of Differential Equations exploring into the details of Complex Numbers or connecting the power of Numerical Methods this book offers clear explanations practical examples and challenging exercises to support your learning journey Discover how Vector Calculus transforms your approach how Probability and Statistics sharpen your data analysis and how Fourier and Laplace Transformations simplify complex problems Special topics like Chebyshev Polynomials Fuzzy Set theory and Empirical Law offer awareness into revolutionary mathematical applications This book is perfect for anyone passionate about mathematics and will inspire you to solve problems with confidence creativity and accuracy Introduction to Engineering Mathematics Volume 1: For All Engineering Colleges of AKTU Lucknow, Uttar Pradesh (12/e) H K Dass, Rajnish Verma & Rama Verma, The book Introduction to Engineering Mathematics I has been conceptualized specifically according to the New Syllabus 2022 onwards of A P J Abdul Kalam Technical University APJAKTU Lucknow It covers important topics such as Inverse of a Matrix Elementary Transformation Linear Dependence and Independence of Vectors Solution of System of Linear Equations Characteristic Equation Eigen Values and Eigen Vectors Successive Differentiation nth Order Derivatives Curve Tracing Euler s Theorem for Homogeneous Functions Jacobians Beta Gamma Functions and Properties Vector Differentiation Vector Integration etc for sound conceptual understanding of students Latest Question papers have been solved and included in the book Also short questions have been added at the end of each chapter for better preparation of examinations

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