

Syllabus

APPLIED MATHEMATICS - III

S. E. Semester - III

(Mumbai University - Effective From June 2013)

**Common to Mechanical, Automobile,
Production and Civil Engineering**

Module 1 : Laplace Transforms

(6)

1. Function of bounded variation, Laplace Transform of standard functions such as 1 , t^n , e^{at} , $\sin at$, $\cos at$, $\sin h at$, $\cos h at$.
2. Linearity property of Laplace Transform, First shifting property, Second shifting property, Change of Scale property of L.T. (without proof)

$L\{t^n f(t)\}$, $L\left\{\frac{f(t)}{t}\right\}$, $L\left\{\int_0^t f(u) du\right\}$, $L\left\{\frac{d^n f(t)}{dt^n}\right\}$, Heaviside unit step function, Dirac-delta function, Periodic functions and their Laplace Transform.

Module 2 : Inverse Laplace Transforms

(5)

1. Linearity property, use of theorems to find inverse Laplace Transform, Partial fractions method and convolution theorem.
2. Applications to solve initial and boundary value problems involving ordinary differential equations with one dependent variable.

Module 3 : Complex Variables

(10)

1. Functions of complex variable, analytic function, necessary and sufficient conditions for $f(z)$ to be analytic (without proof), Cauchy-Riemann equations in polar coordinates.
2. Milne-Thomson method to determine analytic function $f(z)$ when it's real or imaginary or its combination is given. Harmonic function, orthogonal trajectories.
3. Mapping : Conformal mapping, linear, bilinear mapping, cross ratio, fixed points and standard transformations such as rotation and magnification, inversion and reflection, translation.

Module 4 : Complex Integral

(10)

1. Line integral of a function of a complex variable, Cauchy's theorem for analytic function, Cauchy Goursat theorem (without proof), properties of line integral, Cauchy's integral formula and deductions.

Applied Mathematics V 1

Hongru Du



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Applied Mathematics Reviews, Volume 1 George A Anastassiou, 2000-06-09 Applied mathematics connects the mathematical theory to the reality by solving real world problems and shows the power of the science of mathematics greatly improving our lives Therefore it plays a very active and central role in the scientific world This volume contains 14 high quality survey articles incorporating original results and describing the main research activities of contemporary applied mathematics written by top people in the field The articles have been written in review style so that the researcher can have a quick and thorough view of what is happening in the main subfields of applied mathematics

Computation and Applied Mathematics, 1999 **Problems in Applied Mathematics** Murray S. Klamkin, 1990-01-01 A compilation of 380 of SIAM Review s most interesting problems dating back to the journal s inception in 1959

Computation and Applied Mathematics, 1999 *Computation and Applied Mathematics*, 1984 **The quarterly journal of pure and applied mathematics**, 1883 *Computation and Applied Mathematics*, 2003 The Quarterly Journal of Pure and Applied Mathematics ... James Joseph Sylvester, James Whitbread Lee Glaisher, 1914

Computation and Applied Mathematics, 2003 *Oswaal NTA CUET (UG) Question Bank Chapterwise & Topicwise Mathematics/Applied Math (For 2024 Exam)* Oswaal Editorial Board, 2023-12-08 Description of the product Strictly as per the Latest Exam Pattern issued by NTA 100% Updated with 2023 Exam Paper Previous Years Questions 2021 2023 for better Exam insights Revision Notes for Crisp Revision with Smart Mind Maps Concept Videos for complex concepts clarity 800 Questions for Extensive Practice

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