

Contents

S.No.	Topics
1.	Scalars and Vectors (<i>Solved Examples</i>)
2.	Differentiation of Vectors and Vector Integration (<i>Solved Examples</i>)
3.	'Gauss', Green's and Stokes' Theorems (<i>Solved Examples</i>)
4.	Co-ordinate Systems (<i>Solved Examples</i>)
5.	Complex Algebra (<i>Solved Examples</i>)
6.	Evaluation of Definite Integrals (<i>Solved Examples</i>)
7.	Differential Equations, Power Series, Solution of Legendre, Bessel and Hermite Equations
8.	Beta and Gamma Functions (<i>Solved Examples</i>)
9.	Fourier Series and Fourier Transforms (<i>Solved Examples</i>)
10.	Laplace Transforms
11.	The Inverse Laplace Transforms
12.	Applications of Laplace Transforms to Boundary Value Problems
13.	Test Papers
14.	Bibliography