



Advance Engineering Mathematics

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Solutions of Algebraic Equations and curve-fitting, Linear Algebra: Determinants, Matrices, Determinants and Matrices, Vectors and 3-Dimensional Analysis Geometry, Ordinary Differentiation and Its Applications, Partial Differentiation and Its Applications, Single Integrals with Applications Multiple Integrals with Their Applications, Vector Calculus, Convergence and Divergency of Infinite Series, Fourier Series, Ordinary Differential Equations of Order One, Applications of Differential Equations of First Order, Higher Order Linear Differential Equations with Constant Coefficients, Applications of Linear Differential Equations, Differentiation Equations of Second Order with Variable Coefficients and of Some other types, Special Solution of Differential Equations and Special Functions, Partial Differential Equations, Applications of Partial Differential Equations, Complex Variable, Laplace Transform Fourier Transforms, The Z- Transform, Statistics and Probability, Finite Differences and Interpolation Methods, Difference Equations, Solution of Algebraic Equations by Numerical Methods, Numerical Solutions of Ordinary Differential Equations, Numerical Solution of Partial Differential Equations, Linear Integral Equations, Linear Programming and Transportation and Assignment Problems, Calculus of Variation, tensors, Spherical Trigonometry

Table of Contents

Chapter 1: Solutions of Algebraic Equations and curve-fitting, Chapter 2: Linear Algebra: Determinants, Chapter 3: Matrices, Determinants and Matrices, Chapter 4: Vectors and 3-Dimensional Analysis Geometry, Chapter 5: Ordinary Differentiation and Its Applications, Chapter 6: Partial Differentiation and Its Applications, Chapter 7: Single Integrals with Applications Multiple Integrals with Their Applications, Chapter 8: Vector Calculus, Chapter 9: Convergence and Divergency of Infinite Series, Chapter 10: Fourier Series, Chapter 11: Ordinary Differential Equations of Order One, Chapter 12: Applications of Differential Equations of First Order, Chapter 13: Higher Order Linear Differential Equations with Constant Coefficients, Chapter 14: Applications of Linear Differential Equations, Chapter 15: Differentiation Equations of Second Order with Variable Coefficients and of Some other types. Chapter 16 :Special Solution of Differential Equations and Special Functions, Chapter 17: Partial Differential Equations, Chapter 18: Applications of Partial Differential Equations, Chapter 19: Complex Variable, Chapter 20: Laplace Transform Fourier Transforms, Chapter 21 :The Z- Transform, Chapter 22 :Statistics and Probability, Chapter 23: Finite Differences and Interpolation Methods, Chapter 24: Difference Equations, Solution of Algebraic Equations by Numerical Methods, Chapter 25: Numerical Solutions of Ordinary Differential Equations, Chapter 26: Numerical Solution of Partial Differential Equations, Chapter 27: Linear Integral Equations, Chapter 28: Linear Programming and Transportation and Assignment Problems, Chapter 29: Calculus of Variation, tensors, Chapter 30 :Spherical Trigonometry



Author

M.L. Rawat Dr. M.L. Rawat, born in poor family did his M.Sc in first division in 1957, and PhD in Hydrodynamics in 1973 from the University of Rajasthan and became a Lecturer of Mathematics at Maharaja's College, Jaipur. During his service , he served at various government colleges in Rajasthan and taught M.Sc classes at Jaipur, Dungar College, Bikaner and Government College, Ajmer. He also served as Degree College Principal for 6 Years and Post Graduate college principal for 5 Years. Currently, he is working as professor of Mathematics at Jaipur Engineering College & Research Centre (JECRC), Jaipur.

