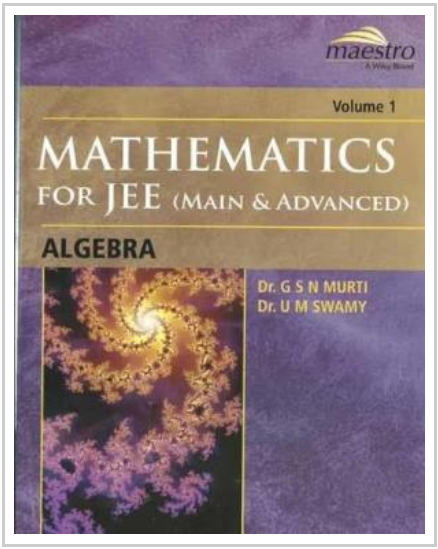

Mathematics for JEE (Main and Advanced): Algebra, Volume 1

By Dr G.S.N. Murti,Dr U.M. Swamy

Wiley India Pvt. Ltd, 2013. Softcover. Book Condition: New. 22 x 28 cm. The book has a two-fold advantage: (a) Conceptual strength provided by accurate, precise but sufficient coverage of topics; (b) solved and unsolved problems as per IIT-JEE pattern for strengthening concepts. The main idea is to make students understand the theory behind to enable them to strategize a given problem and tactically solve it. The topics covered in this volume are: Sets, Relations and Functions; Exponentials and Logarithms; Complex Numbers; Quadratic Numbers; Progressions, Sequences and Series; Permutations and Combinations; Binomial Theorem; Matrices, Determinants and System of Equations; Partial Fractions. Chapter 1: Sets, Relations and Functions 1.1 Sets: Definition and Examples 1.2 Set Operations 1.3 Venn Diagrams 1.4 Relations 1.5 Equivalence Relations and Partitions 1.6 Functions 1.7 Graph of a Function 1.8 Even Functions and Odd Functions Worked-Out Problems Summary Exercises Answers Chapter 2: Exponentials and Logarithms 2.1 Exponential Function 2.2 Logarithmic Function 2.3 Exponential Equations 2.4 Logarithmic Equations 2.5 Systems of Exponential and Logarithmic Equations 2.6 Exponential and Logarithmic Inequalities Worked-Out Problems Summary Exercises Answers Chapter 3: Complex Numbers 3.1 Ordered Pairs of Real Numbers 3.2 Algebraic Form a + ib 3.3 Geometric Interpretation 3.4 The Trigonometric Form...

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