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VOLUME I Unit 1: Mechanics Chapter 1: Units and Measurement Chapter 2: Vectors Chapter 3: Motion Along a Straight Line Chapter 4: Motion in Two and Three Dimensions Chapter 5: Newton's Laws of Motion Chapter 6: Applications of Newton's Laws Chapter 7: Work and Kinetic Energy Chapter 8: Potential Energy and Conservation of Energy Chapter 9: Linear Momentum and Collisions Chapter 10: Fixed-Axis Rotation Chapter 11: Angular Momentum Chapter 12: Static Equilibrium and Elasticity Chapter 13: Gravitation Chapter 14: Fluid Mechanics Unit 2: Waves and Acoustics Chapter 15: Oscillations Chapter 16: Waves Chapter 17: Sound Boris Kuznetsov was a scientist among humanists, a philosopher among scientists, a historian for those who look to the future, an optimist in an age of sadness. He was steeped in classical European culture, from earliest times to the latest avant-garde, and he roamed through the ages, an inveterate time-traveller,

chatting and arguing with Aristotle and Descartes, Heine and Dante, among many others. Kuznetsov was also, in his intelligent and thoughtful way, a Marxist scholar and a practical engineer, a patriotic Russian Jew of the first sixty years of the Soviet Union. Above all he meditated upon the revolutionary developments of the natural sciences, throughout history to be sure but particularly in his own time, the time of what he called 'non-classical science', and of his beloved and noblest hero, Albert Einstein. Kuznetsov was born in Dnepropetrovsk on October 5, 1903 (then Yekaterinoslav). By early years he had begun to teach, first in 1921 at an institute of mining engineering and then at other technological institutions. By 1933 he had received a scientific post within the Academy of Science of the U. S. S. R. , and then at the end of the Second World War he joined several colleagues at the new Institute of the History of Science and Technology. For more than 40 years he worked there until his death two years ago.

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Thorough practice done from this book will the candidates to move a step towards their success.

TABLE OF CONTENT Sets, Relations and Functions, Complex Numbers, Equations and Inequalities, Sequences and Series, Permutations and Combinations, Binomial Theorem and Mathematical Induction, Matrices and Determinants, Trigonometric Identities and Equations, Inverse Trigonometric Functions, Properties of Triangle, Heights and Distances, Rectangular Cartesian Coordinates, Straight Line and Pair of Straight Lines, Circle and System of Circles, Conic Section, Limits, Continuity and Differentiability, Differentiation, Applications of Derivatives, Indefinite Integrals, Definite Integrals, Applications of Integrals, Differential Equations, Vector Algebra, Three Dimensional Geometry, Statistics, Probability, Mathematical Logic and Boolean Algebra, Linear Programming, Statics and Dynamics, Miscellaneous, Questions Asked in JEE Main 2015, Solved Papers 2016 (JEE Main, BITSAT,

AP EAMCET, TS EAMCET, GGSIPU), Solved Papers 2017 (JEE Main & Advanced, BITSAT, VIT & WBJEE), Solved Papers 2018 (JEE Main & Advanced, BITSAT & WBJEE), Solved Papers 2019 (JEE Main & Advanced, BITSAT & WBJEE).

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