

Odysseyware Physics Semester

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this textbook has been conceptualised to meet the needs of b sc first semester students of physics as per common minimum syllabus prescribed for all uttar pradesh state universities and colleges under the recommended national education policy 2020 designed strictly as per the syllabus the first part of the textbook comprehensively covers the theory paper mathematical physics newtonian mechanics which discusses important topics such as newton s axioms of motion dynamics of particles pseudo forces and the mathematical base including tensors the second part of the textbook systematically covers the practical paper mechanical properties of matter to help students achieve solid conceptual understanding and learn experimental procedures

conceptualized specifically for the university of delhi as per the recommendations of national education policy 2020 nep 2020 mathematical physics i covers important topics such as concept of functions graphs of functions using calculus concepts homogeneous equations with constant coefficients applications physics problems second order differential equations vector algebra differentiation and integration binomial poisson and normal distribution for sound conceptual understanding for students

on 1962 it has been cited by oxford university that state development corporation of california usa is the first to use data base term on technical aspect on mid 1960 s charles william aka charlie bachman iii an american computer scientist who was the author of ids integrated data store founded the database task group within codasyl who was also sole responsible for creation and standardization of cobol in 1971 codasyl delivered its approach to user database on the below terms which welcomed other market leaders to follow although ibm had its own database known as ims which was developed using apollo program under system 360 but was always considered as hierarchical database due to its strict hierarchical data modelling unit to search any particular or group of data sets whereas ids was always considered as network database

this book has been conceptualized as per the recommended national education policy nep 2020 and as per syllabus prescribed by universities of uttar pradesh for b sc students of physics for the fourth semester this textbook comprehensively covers two papers theory and practical part a begins with structure of space time in newtonian mechanics galilean transformation and electromagnetism leading to the foundation of theory of relativity is studied in detail the experimental background of michelson morley experiment and its significance of discarding the existence of ether developed the relativistic kinematics inadequacies of classical mechanics black body radiation max planck s quantum hypothesis and concept of matter waves are elaborately explained in a simple manner part b deals with the electronics branch which covers transistor biasing amplifiers feedback and oscillator circuits are lucidly explained with suitable examples

this textbook has been designed to meet the needs of b sc first semester students of physics as per common minimum syllabus prescribed for patna university and other universities and colleges under the recommended national education policy 2020 in bihar the book comprises of four units unit i start with differential calculus which covers geometric meaning of derivative maxima and minima approximation of derivative partial differentiation approximation using taylor and binomial series followed by integral calculus which covers solution of first and second order differential equations fundamentals of integral calculus unit ii covers concept of scalar and vector fields gradient of scalar divergence and curl of vectors and their physical applications in physics such as equation of continuity euler s equation of motion bernoulli s theorem etc unit iii fundamentals of dynamics explains inertial and non inertial frame of reference rotating frame of reference centrifugal and coriolis forces with their applications unit iv covers important topics such as centre of mass frame two dimensional collisions in physical problems relation connecting scattering angle recoil angle and final velocities rutherford scattering the central forces and their equations kepler s laws of planetary motion and satellites are explained thoroughly short and long questions are incorporated at the end of each chapter to build confidence in every student for theory examination the practical part contains experiments on measurements random errors dynamics of system of particles elastic constants acceleration due to gravity and viscosity oral questions are incorporated at the end of each experiment which are usually asked in practical examination

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