

# ATOMIC PHYSICS

(MODERN PHYSICS)



Dr. S.N. GHOSHAL

S. CHAND

# Modern Physics S Chand

**R Murugesan & Kiruthiga Sivaprasath**



## **Modern Physics S Chand:**

Elements of Modern Physics: (As per UGC-CBCS Curriculum) R Murugesan & Kiruthiga Sivaprasath, This textbook has been designed as per the UGC Choice Based Credit System CBCS curriculum to meet the requirements of undergraduate students of physics It extensively covers the fundamental principles synthesis and physical interpretation of atomic physics quantum mechanics nuclear physics and lasers Laboratory work has also been included to help students achieve solid conceptual understanding and learn experimental procedures

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*Modern Physics* B L Theraja, 2008 **Modern Physics** J. B. Rajam, N. Subrahmanyam, 1984 Modern Physics J. B. Rajam, 1957 Solved Problems in Modern Physics R. Murugesan, 1990

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**Refresher Course in Modern Physics** C. L. Arora, 1970 **Modern Physics** D. L. Sehgal, K. L. J. Chopra, N. K. Sehgal, 1980 **Physics for B.Sc. Students: Semester IV Perspectives of Modern Physics and Basic Electronics NEP 2020 Uttar Pradesh** P S Hemne & C L Arora, 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 either 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

*Atomic and Nuclear Physics* N. Subrahmanyam | Brij Lal | Jivan Seshan, 2007-12 The present edition of the book is revised as per the UGC syllabus Questions and problems at the end of each chapter have been up dated Many new solved examples are included in this edition Certain topic have been added so that students from some universities where the syllabus has been modified and upgraded may benefit Besides being a text book we hope that this benifit students appearing at the IAS AMIE and other Competitive Examinations

*Atomic Physics* J. B. Rajam, 1950

*Optics and Spectroscopy* R Murugesan | Kiruthiga Sivaprasath, 2003 This book has been written for the students of B Sc Physics of various Indian Universities The book covers the syllabi prescribed by Madras Bharathiyar Bharathidhasan Madurai Kamaraj and Manonmaniam Sundaranar Universities SI System of Units has been used throughout the text Proper care has been taken in dealing with the subject with modern outlook A large number of questions and problems have been given at the end of each Chapter Students should attempt to tackle them properly for better insight and understanding of the subject

Advanced Modern Physics John Dirk Walecka, 2010 Building on the author s introduction to modern physics this volume focuses on the reformulation of quantum mechanics angular momentum scattering theory lagrangian field theory symmetries Feynman rules quantum electrodynamics including higher order contributions path integrals canonical transformations for quantum systems

**The Concepts and Theories of Modern Physics** John Bernhard Stallo, 1882

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