



## CONTENTS

<i>Preface</i>	iii
<i>About the Indian Association of Physics Teachers</i>	v
<i>List of Contributors</i>	vii
<i>Referees</i>	ix
1. <b>The Theories of Relativity—Jayant V. Narlikar</b>	1
2. <b>Quantum Mechanics—P.M. Agarwal</b>	25
3. <b>Understanding Physics from a Philosophical Point of View— A.W. Joshi and D.P. Khandelwal</b>	55
4. <b>The Physics of X-Rays—S I. Salem and A. Kumar</b>	75
5. <b>Recoilless Emission and Absorption of Gamma Radiation or Mossbauer Effect—V.K. Garg</b>	99
6. <b>Amorphous and Liquid Semiconductors—Ashok Kumar</b>	125
7. <b>Comments on Faraday's Law—H.S. Mani</b>	152
8. <b>Development in Nuclear Physics and Future Challenges— M.Z. Rahman Khan</b>	165
9. <b>Scattering in a Generalized Central Potential—H.C. Sharma</b>	184
10. <b>Fundamental Particles and Their Interactions—R.M. Godbole</b>	196
11. <b>A Tale of Two Bricks: Quarks and Gluons—B.K. Agarwal</b>	246
12. <b>Quark Structure of Hadrons—S.P. Pandya and S.B. Khadkikar</b>	259
13. <b>The Sun and Its Family—Suresh Chandra and U.S. Pandey</b>	284
14. <b>Astrophysics—K.D. Abhyankar</b>	313
15. <b>Radio Astronomy—V.R. Venugopal</b>	338
<i>Index</i>	379