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December, 14 2024



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plants and functions of even bodies all around. This may require not only studying just "theoretical: aspect of physics, but learning these in practice by, for example, conducting relevant experiments where possible. When viewed in this respect, most physics books at school level, including the ones published as "text books", fail to do full justice to

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with the sole purpose of doing well in the board exams, obtaining marks in nineties, without fully mastering the topics. The present book whilst doing away with many drawbacks as above, has been written by describing all relevant topics of physics at high-school and board level in perspective, relating the topics to their importance in daily life, whilst conforming to various syllabi on physics and enlarging the scope where necessary. The book is structured especially for those students and teachers who have innovative mindset and who would really like to learn physics conceptually, not just to pass board exams with good 'grades'. The book is enriched with a good number of solved numerical problems with clear step-by-step solution of each and numerous exercises at the end of each chapter, most question having been derived from the ICSE board exams over the past ten years or so.

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light begins with historical measurements of its speed and then examines its electromagnetic power intensity, light spectra, human response and color perception. Next, light reflection and refraction are applied to mirrors, lenses, rainbows, eyeglasses, telescopes and microscopes. Subsequently, The text examines the wave nature of light, As

exhibited by its diffraction and interference phenomena. Furthermore, when the electric field amplitudes of waves are oriented along one dimension, light is polarized. Polaroids filter out such "glaring" light when used in sunglasses. Finally, various light experiments provided early clues for discovering relativity and quantum mechanics, which are examined in

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