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presents an introduction to the basic principles of physics discussing such topics as
momentum special relativity magnetism and nuclear fission

part of the kit

authored by paul hewitt the pioneer of the enormously successful concepts before computation approach conceptual physics boosts student success by first building a solid conceptual understanding of physics hewitt s 3 step learning approach explore develop and apply makes physics more accessible for today s students

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this laboratory manual provides exercises covering the basic concept of physics

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kids and teachers can build their own science projects based on exhibits from san francisco s premiere science museum this revised and updated edition offers instructions for building junior versions or snacks of the famed exploratorium s exhibits the snacks designed by science teachers can be used as demonstrations labs or as student science projects and all 100 projects are easy to build from common materials the exploratorium a renowned hands on science museum founded by physicist and educator frank oppenheimer is noted for its interactive exhibits that richly illustrate scientific concepts and stimulate learning offers a step by step guide for building dynamic science projects and exhibits includes tips for creating projects made from easy to assembly items thoroughly revised and updated including new snacks images and references

since the invention of the laser our fascination with the photon has led to one of the most dynamic and rapidly growing fields of technology as the reality of all optical systems comes into focus it is more important than ever to stay current with the latest advances in the optics and components that enable photonics technology comprising chapters drawn from the author s highly anticipated book photonics principles and practices physical optics principles and practices offers a detailed and focused treatment for anyone in need of authoritative information on this critical area underlying photonics using a consistent approach the author leads you step by step through each topic each skillfully crafted chapter first explores the theoretical concepts of each topic and then demonstrates how these principles apply to real world applications by guiding you through

experimental cases illuminated with numerous illustrations the book works systematically through the principles of waves diffraction interference diffraction gratings interferometers spectrometers and several aspects of laser technology to build a thorough understanding of how to study and manipulate the behavior of light for various applications in addition it includes a four page insert containing several full color illustrations as well as a chapter on laboratory safety containing several topics presented for the first time in book form physical optics principles and practices is simply the most modern detailed and hands on text in the field

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