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the book is an overview of the major subfields and concepts in physics including a brief outline of the history of physics and its subfields physics from greek from φυσικός phusikos natural from φύσις fysis nature is the science of nature in the broadest sense physicists study the behaviour and interactions of matter and radiation theories of physics are generally expressed as mathematical relations well established theories are often referred to as physical laws or laws of physics however like all scientific theories they are ultimately provisional physics is very closely related to the other natural sciences particularly chemistry the book is an overview of the major subfields and concepts in physics including a brief outline of the history of physics and its subfields

the authors have attempted to convey a mode of approach to these kinds of problems revealing procedures that can reduce the labor of calculations while avoiding the pitfall of too much or too powerful formalism

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there is little doubt that einstein's theory of relativity captures the imagination not only has it radically altered the way we view the universe but the theory also has a considerable number of surprises in store this is especially so in the three main topics of current interest that this book reaches namely black holes gravitational waves and cosmology the main aim of this textbook is to provide students with a sound mathematical introduction coupled to an understanding of the physical insights needed to explore the subject indeed the book follows einstein in that it introduces the theory very much from a physical point of view after introducing the special theory of relativity the basic field equations of gravitation are derived and discussed carefully as a prelude to first solving them in simple cases and then exploring the three main areas of application this new edition contains a substantial extension content that considers new and updated developments in the field topics include coverage of the advancement of observational cosmology the detection of gravitational waves from colliding black holes and neutron stars and advancements in modern cosmology einstein's theory of relativity is

undoubtedly one of the greatest achievements of the human mind yet in this book the author makes it possible for students with a wide range of abilities to deal confidently with the subject based on both authors experience teaching the subject this is achieved by breaking down the main arguments into a series of simple logical steps full details are provided in the text and the numerous exercises while additional insight is provided through the numerous diagrams as a result this book makes an excellent course for any reader coming to the subject for the first time while providing a thorough understanding for any student wanting to go on to study the subject in depth

second edition of a widely used textbook providing the first step into general relativity for undergraduate students with minimal mathematical background

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