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the ambition of this volume is twofold to provide a comprehensive overview of the field and to serve as an indispensable reference work for anyone who wants to work in it for example any philosopher who hopes to make a contribution to the topic of the classical quantum correspondence will have to begin by consulting klaas landsman s chapter the organization of this volume as well as the choice of topics is based on the conviction that the important problems in the philosophy of physics arise from studying the foundations of the fundamental theories of physics it follows that there is no sharp line to be drawn between philosophy of physics and physics itself some of the best work in the philosophy of physics is being done by physicists as witnessed by the fact that several of the contributors to the volume are theoretical physicists viz ellis emch harvey landsman rovelli t hooft the last of whom is a nobel laureate key features definitive discussions of the philosophical implications of modern physics masterly expositions of the fundamental theories of modern physics covers all three main pillars of modern physics relativity theory quantum theory and thermal physics covers the new sciences grown from these theories for example cosmology from relativity theory and quantum information and quantum computing from quantum theory contains special chapters that address crucial topics that arise in several different theories such as symmetry and determinism written by very distinguished theoretical physicists including a nobel laureate as well as by philosophers definitive discussions of the philosophical implications of modern physics masterly expositions of the fundamental theories of modern physics covers all three main pillars of modern physics relativity theory quantum theory and thermal physics covers the new sciences that have grown from these theories for example cosmology from relativity theory and quantum information and quantum computing from quantum theory contains special chapters that address crucial topics that arise in several different theories such as symmetry and determinism written by very distinguished theoretical physicists including a nobel laureate as well as by philosophers

written in an informal yet substantive style that is a joy to read this book provides a uniquely engaging in depth introduction to the concepts of quantum physics and their practical implementation and is filled with clear thorough explanations that help readers develop insight into physical ideas and master techniques of problem solving using quantum mechanics fully explores the concepts and strategies of quantum mechanics showing the connections among the physical concepts that govern the atomic and sub atomic domain of matter and examining how these concepts manifest themselves in the mathematical machinery of quantum mechanics focuses on the explanations and motivations of the postulates that underlie the machinery of quantum mechanics and applies simple single particle systems in one dimension illuminates discussions of ideas and techniques with a multitude of examples that show not just the answers but also the reasoning behind them and adds dimension to the subject with historical biographical and philosophical references throughout designed for a wide range of readers interested in various branches of physics and engineering physics

general physics atomic physics molecular physics and solid state physics

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