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focuses on fundamental mathematical and computational methods underpinning physics relevant to statistical physics

chaotic and complex systems classical and quantum mechanics classical and quantum integrable systems and classical and quantum field theory

physics is our attempt to conceptually grasp all the happenings around us then realizing that concepts are the free creations of the human mind helps us develop proper understanding of a subject especially during formative stages this introductory book on physics presents careful analysis of the developments of basic concepts for the beginners it is written in a way that stimulates students and creates a sustained interest in physics so that studying the subject is enjoyable and satisfying the physical concepts are explained clearly enough for anyone to understand in this text the exercises are provided in three different categories namely as questions as problems and as multiple choice questions the first category of exercises contains thought provoking and descriptive questions the second category of exercises involves numerical computations the third category of exercises of multiple choice questions provides a reader with a flavour of the currently popular mode of examination intended for the introductory level college physics courses the book will also be an invaluable resource for the students preparing for various competitive examinations key features readers can modify the given situation to design questions and problems solved examples provide quantitative as well as qualitative features of physical situations encountered in the real life students will be able to visualize the applicability of the laws of physics

deng feng wang was born february 8 1965 in chongqing city china and died august 15 1999 while swimming with friends in the atlantic ocean off island beach state park new jersey in his brief life he was to have an influence far beyond his years on august 12th 2000 the deng feng wang memorial conference was held at his alma mater princeton university during which deng feng s mentors collaborators and friends presented scientific talks in a testimonial to his tremendous influence on their work and careers the first part of this volume contains proceedings contributions from the conference with plenary talks by nobel laureate professor phil anderson of princeton university and leading condensed matter theorists professor piers coleman of rutgers university and professor christian gruber of the university of lausanne other talks given by collaborators friends and classmates testify to the great breadth of deng feng wang s influence with remarkable connections shown between seemingly unrelated areas in physics such as condensed matter physics superconductivity one dimensional models statistical physics mathematical physics quantum field theory high energy

theory nuclear magnetic resonance supersymmetry m theory and string theory in addition to such varied fields outside of physics such as oil drilling mixed signal circuits and neurology the second part of the volume consists of reprints of some of deng feng wang s most important papers in the areas of condensed matter physics statistical physics magnetism mathematical physics and mathematical finance this volume represents a fascinating synthesis of a wide variety of topics and ultimately points to the universality of physics and of science as a whole as such it represents a fitting tribute to a remarkable individual whose tragic death will never erase his enduring influence

very short introductions brilliant sharp inspiring philosophy of physics is concerned with the deepest theories of modern physics notably quantum theory our theories of space time and symmetry and thermal physics and their strange even bizarre conceptual implications a deeper understanding of these theories helps both physics through pointing the way to new theories and new applications and philosophy through seeing how our worldview has to change in the light of what we learn from physics this very short introduction explores the core topics in philosophy of physics through three key themes the first the nature of space time and motion begins by considering the philosophical puzzles that led isaac newton to propose the existence of absolute space and then discusses how those puzzles change but do not disappear in the context of the revolutions in our understanding of space and time that came first from special and then from general relativity the second the emergence of irreversible behavior in statistical mechanics considers how the microscopic laws of physics which know of no distinction between past and future can be compatible with the melting of ice the cooling of coffee the passing of youth and all the other ways in which the large scale world distinguishes past from future the last section discusses quantum theory the foundation of most of modern physics yet mysterious to this day it explains just why quantum theory is so difficult to make sense of how we might nonetheless attempt to do it and why the question has been highly relevant to the development of physics and continues to be so about the series the very short introductions series from oxford university press contains hundreds of titles in almost every subject area these pocket sized books are the perfect way to get ahead in a new subject quickly our expert authors combine facts analysis perspective new ideas and enthusiasm to make interesting and challenging topics highly readable

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clear and concise explanations of the development of theories explaining physical phenomena

this third edition contains many new pedagogical features most notably a contextual approach to enhance motivation and an increased emphasis on avoiding misconceptions through the inclusion of pitfall preventions and a problem solving strategy that uses a modeling approach

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