UNIVERSAL THEMES OF BOSE–EINSTEIN CONDENSATION

Edited by Nick P. Proukakis, David W. Snoke and Peter B. Littlewood

"A truly remarkable group of leaders in the field provide their perspectives on historical and current developments in the physics of Bose–Einstein condensates."
Steven M. Girvin, Yale University

New technologies are made possible by new materials which could only be discovered experimentally. This book provides a comprehensive review of this field covering different computational methodologies.

CLASSICAL FIELD THEORY

Horatiu Nastase

Focusing purely on modern classical field theory, helps students build an understanding of methods before embarking on future studies.

Atomic-Molecular Ionization by Electron Scattering

Theory and Applications

K. N. Joshipura | Nigel Mason

A comprehensive and up-to-date text in the field of electron scattering and ionization, covering fundamentals, experimental background, quantum scattering theories and applications.

Credit: Event Horizon Telescope Collaboration

take me with you if you please
One of the subjects of functional analysis is classification of Banach spaces depending on various properties of the unit ball. This book presents basic facts from the field.

Using the combinatorial reciprocity theorems as a leitmotif, this book unfolds central ideas and techniques in enumerative and geometric combinatorics.

"A concise and engaging exposition of the mathematics necessary for physics students."
Juan Maldaceno, Institute for Advanced Study

"Well written account of many branches of complexity theory, this book would be a good way to learn a lot of complexity theory quickly."
Mathematical Reviews
The aim of these writings is to present some key scientific events and personalities in the form of short stories that are easy and fun to read. Each story may be read separately, but they all band together to form a wide-ranging introduction to the history of science and scientific research.

Perfect for senior undergraduates and first-year graduate students in geophysics, geology and engineering, this book is devoted to seismic wave theory. Students will learn to understand it through the book's clear and concise pedagogy.

A state-of-the-art synthesis about the coupling of clouds and water vapor to the large-scale circulation. Each subject is approached using simulations and synthesizing theory.

"A practical approach to the application of radiotherapy physics and planning that will primarily assist radiation therapy medical residents in the clinical environment."

Dimitris Mihalidis, University of Pennsylvania School of Medicine

Written by eminent scientists from the field, this book covers a range of topics including ambient noise observations, generation models of their physical origins, numerical modelling and processing methods.