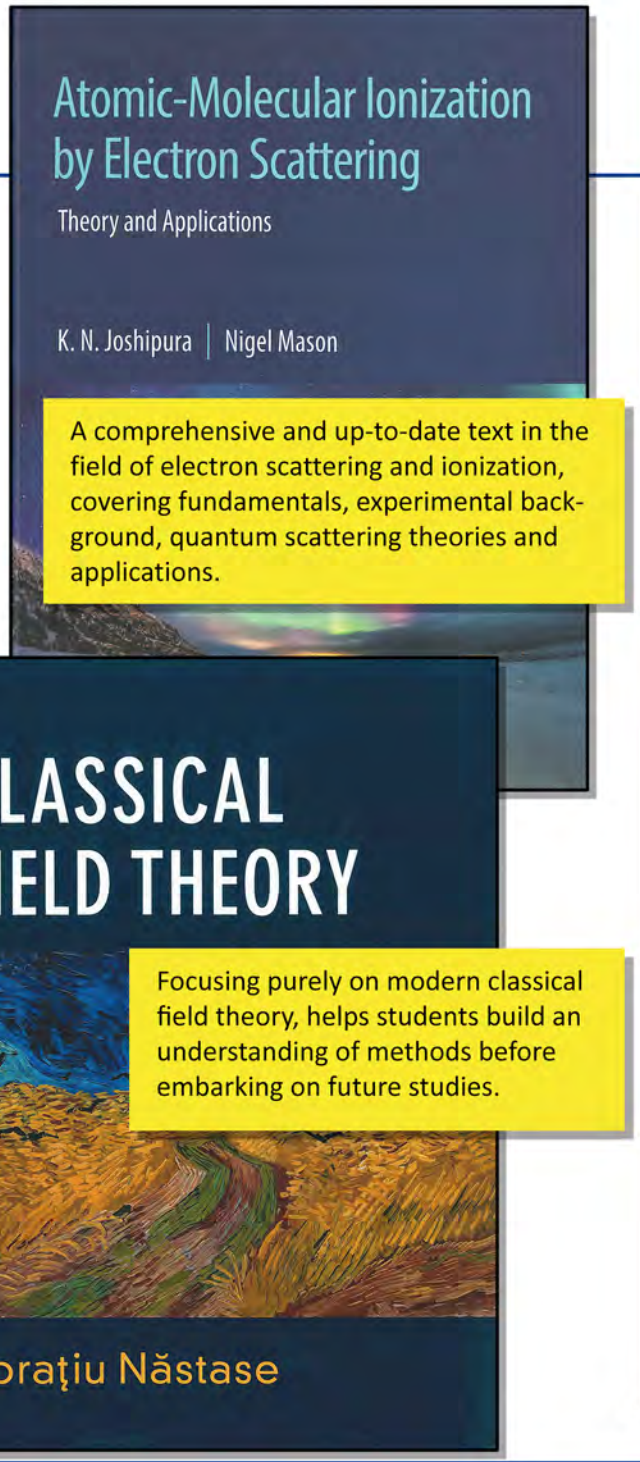
new in the library

May 2019 - Physics

"A truly remarkable group of leaders in the field provide their perspectives on historical and current developments in the physics of Bose-Einstein condensates."

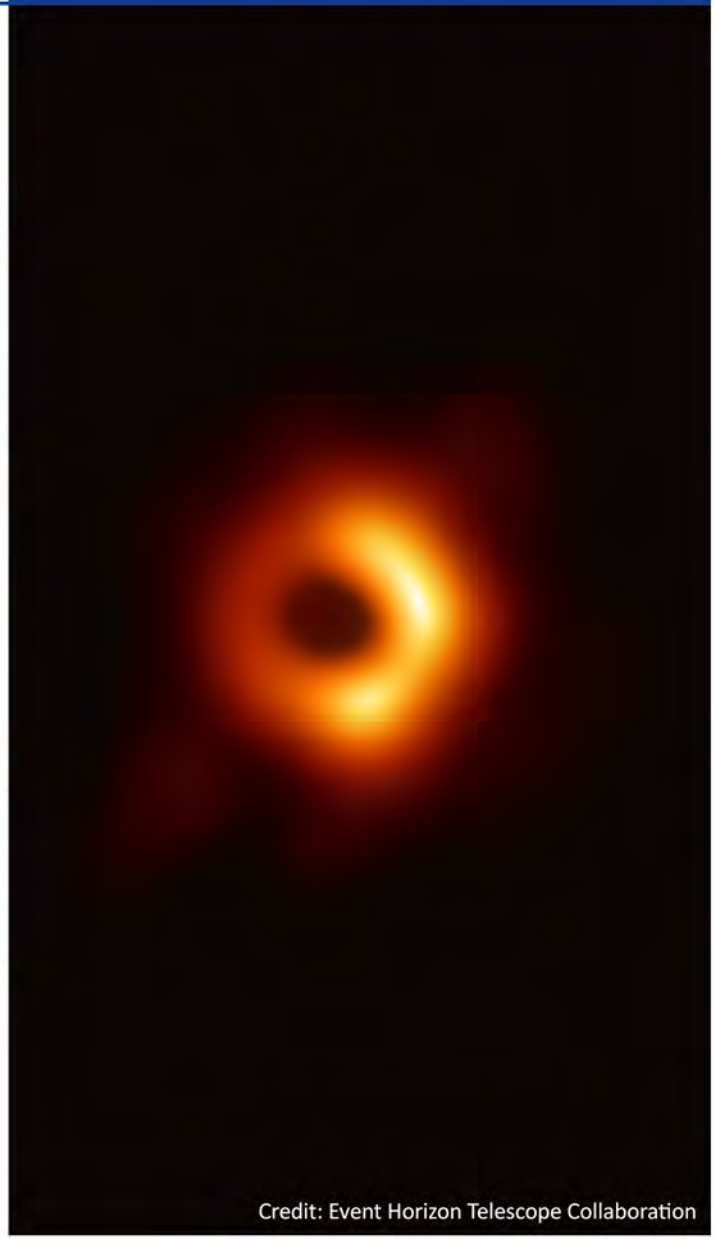
Steven M. Girvin, Yale University

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.



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

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



Credit: Event Horizon Telescope Collaboration

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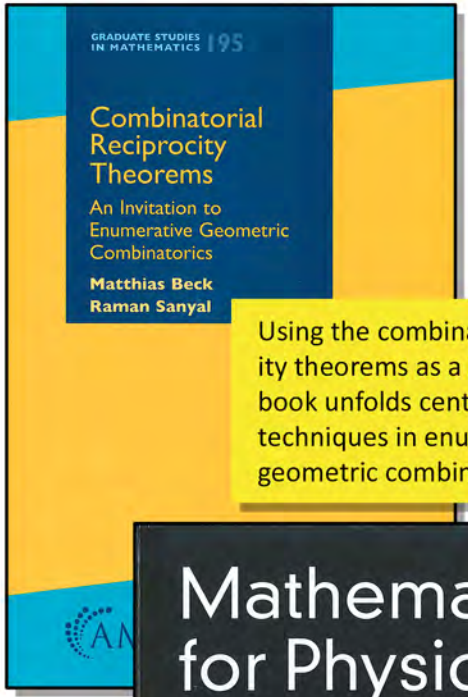
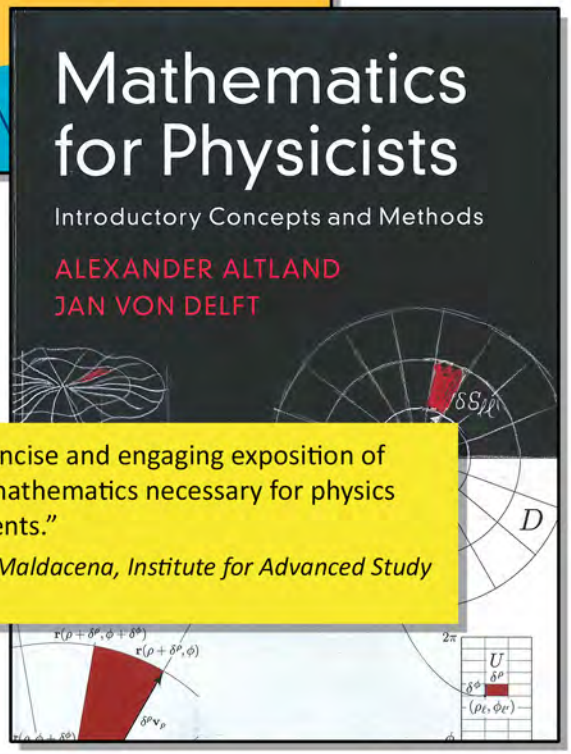
May 2019 - Mathematics

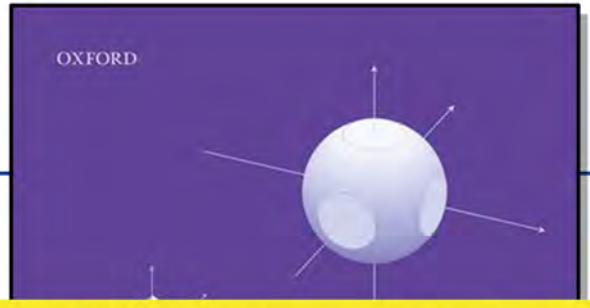


Using the combinatorial reciprocity theorems as a leitmotif, this book unfolds central ideas and techniques in enumerative and geometric combinatorics.

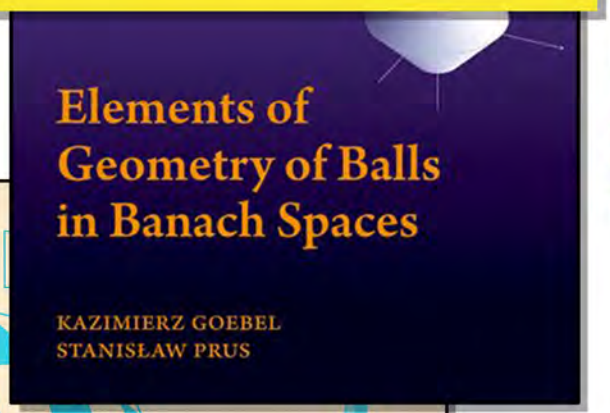


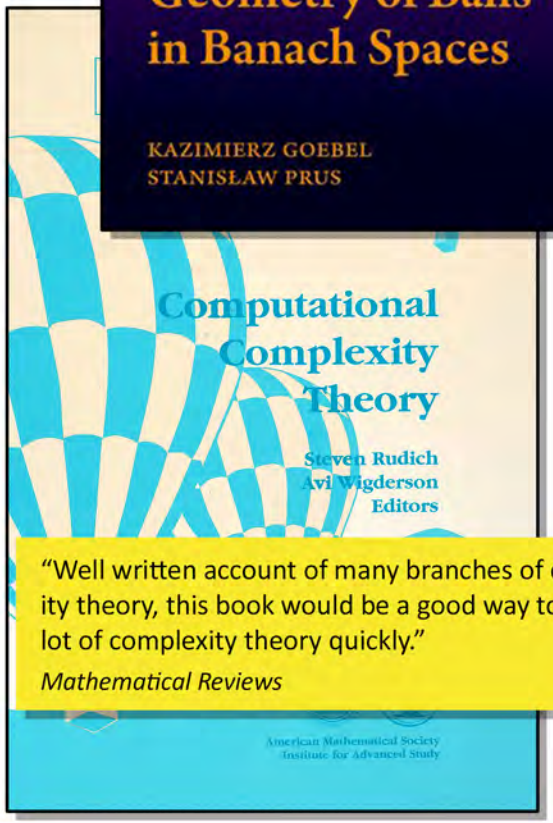
"A concise and engaging exposition of the mathematics necessary for physics students."

Juan Maldacena, Institute for Advanced Study



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.





"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

Carolina Araujo by Lianne Milton for Quanta Magazine

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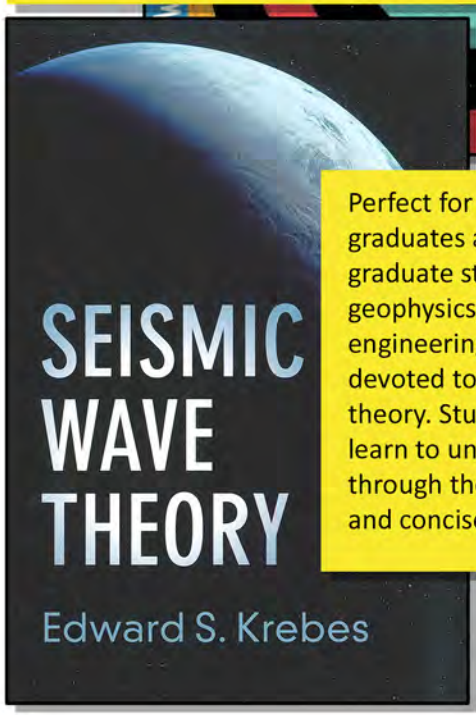
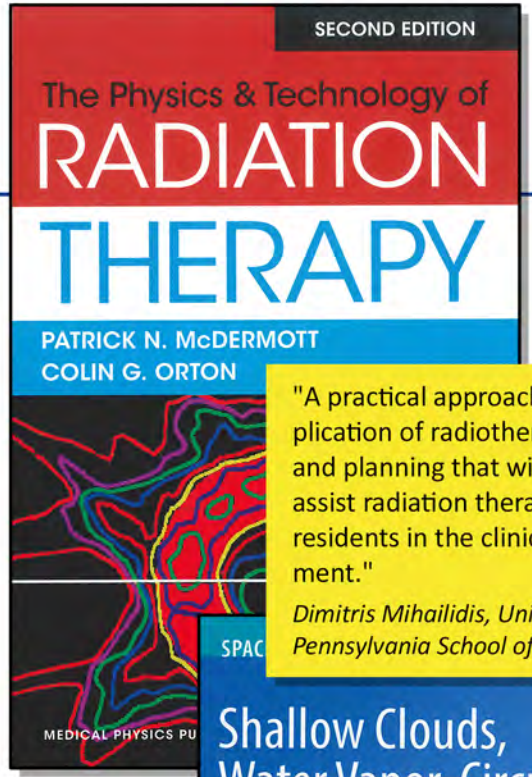
May 2019 - Other Fields

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.

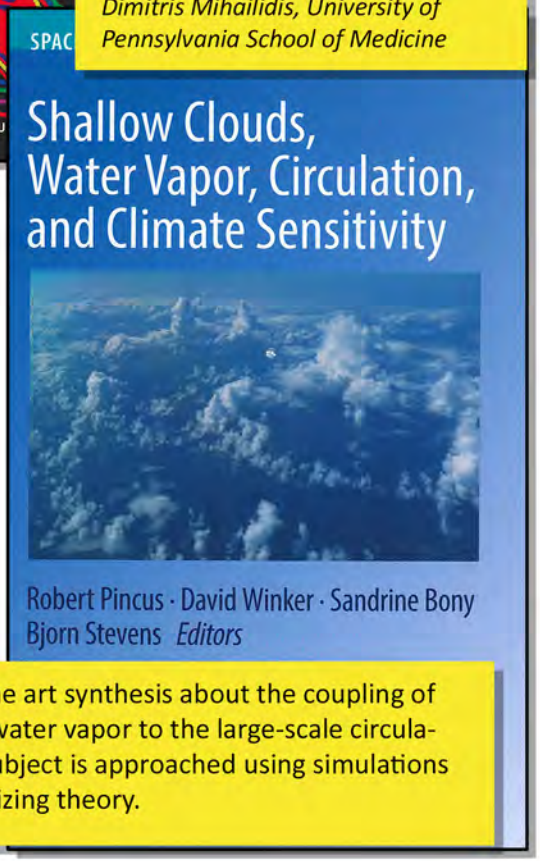


Perfect for senior undergraduates and first-year graduate students in geophysics, geology and engineering, this book is devoted to seismic wave theory. Students will learn to understand it through the book's clear and concise pedagogy.

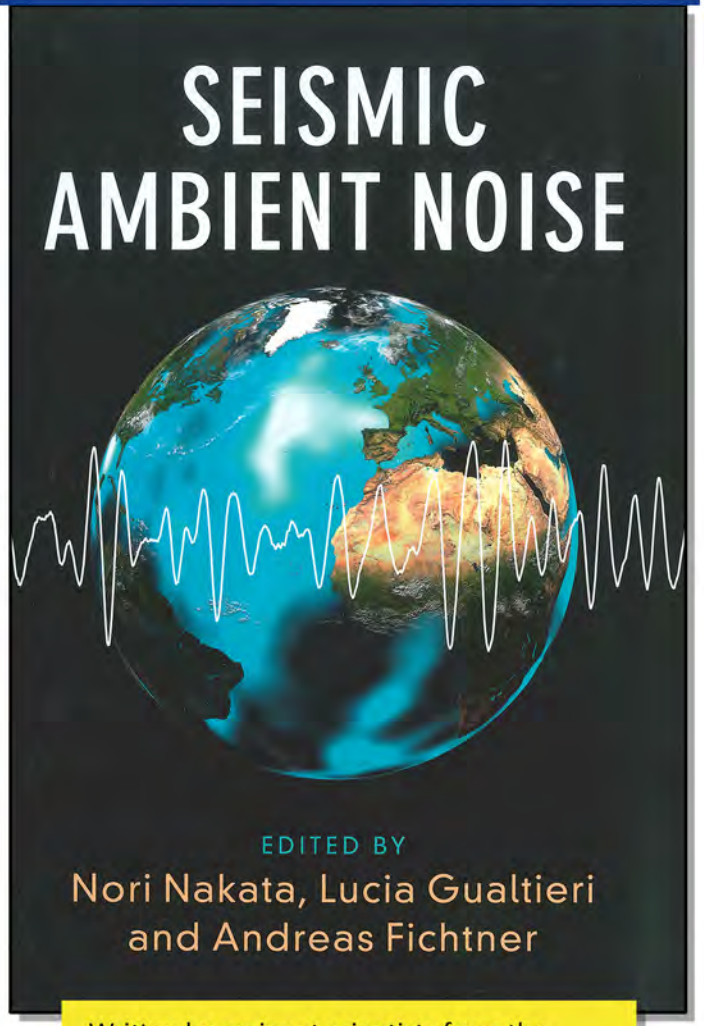


"A practical approach to the application of radiotherapy physics and planning that will primarily assist radiation therapy medical residents in the clinical environment."

Dimitris Mihailidis, University of Pennsylvania School of Medicine



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.



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.

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