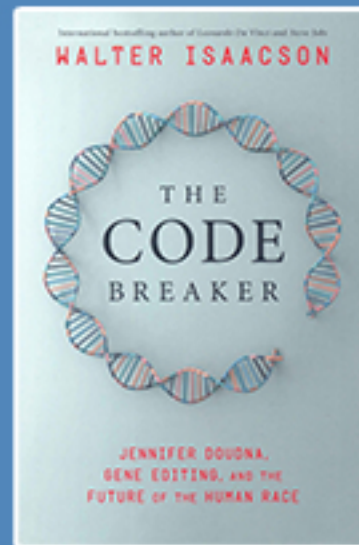


New in the Library

May/June 2021



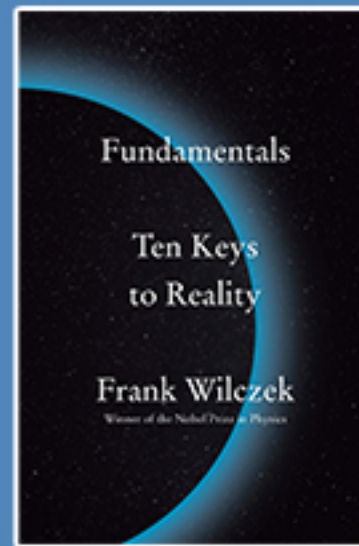
The Abdus Salam
International Centre
for Theoretical Physics



2021

The Code Breaker Jennifer Doudna, Gene Editing, and the Future of the Human Race Walter Isaacson

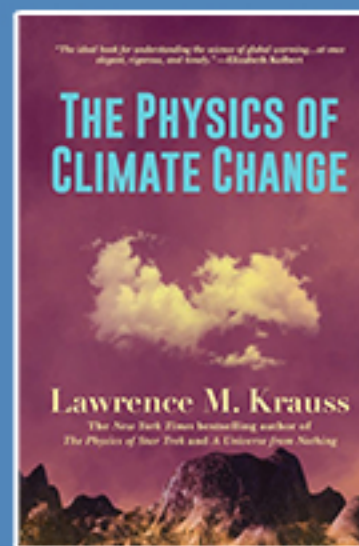
A gripping account of how the pioneering scientist Jennifer Doudna launched the revolutionary easy-to-use tool, known as CRISPR, that can edit DNA and will allow us to cure diseases, fend off viruses, and enhance our children.



2021

Fundamentals Ten Keys to Reality Frank Wilczek

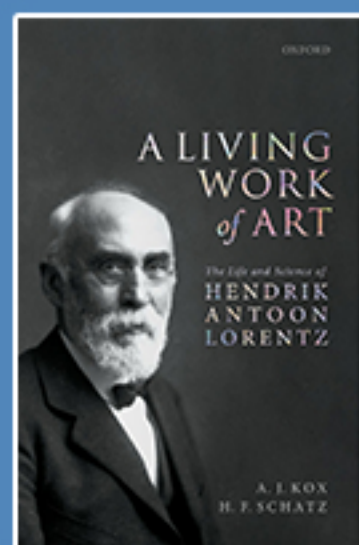
Combining exceptional physical insight with his gift for clear exposition, Nobel Laureate Frank Wilczek describes the foundations of modern physics in their historical context, elevating and illuminating scientific advancement to inspire readers in their own work.



2021

The Physics of Climate Change Lawrence M. Krauss

A brief and clear presentation of the science of climate change, accessible to laypeople, providing the perspective needed to understand and assess the foundations and predictions of climate change.



2021

A Living Work of Art The Life and Science of Hendrik Antoon Lorentz A. J. Kox, H. F. Schatz

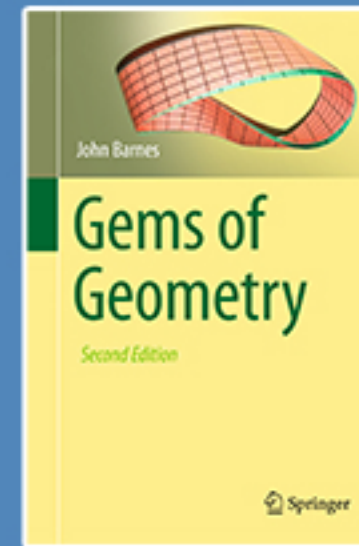
The most interesting account of Lorentz's social role in science and politics, as a peace-promoter in the inter-war period. A well-balanced and intriguing portrait showing the greatness as well as a few weaknesses of the man.



2018

Game Theory and Climate Change Parkash Chander

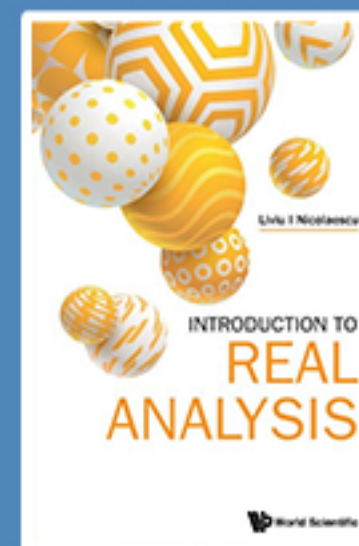
"A timely book, interpreting climate change negotiations in terms of game theory concepts, aimed at economists who use finely crafted mathematical models to explore possible solutions to complex social and environmental problems."
Alain B. Haurie, MathSciNet



2012

Gems of Geometry John Barnes

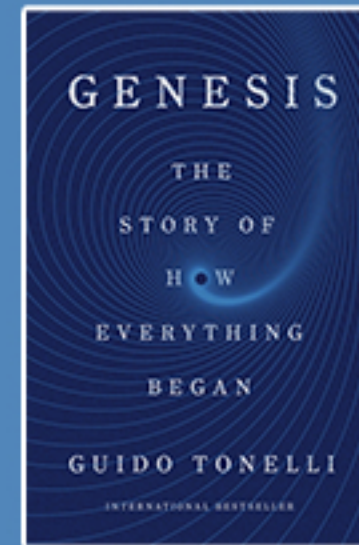
This lively and entertaining book proves that, far from being a dusty, dull subject, geometry is in fact full of beauty and fascination. Key concepts in the field, such as the Golden Number, take the reader on a geometrical journey via Shapes and Solids, through the Fourth Dimension, finishing up with Einstein's Theories of Relativity.



2020

Introduction to Real Analysis Liviu I. Nicolaescu

A text that develops calculus "from scratch", with complete rigorous arguments, aiming to introduce the reader not only to the basic facts about calculus but, as importantly, to mathematical reasoning.



2021

Genesis The Story of How Everything Began Guido Tonelli

"The scientific story of the origin and evolution of our universe is much like a collection of the brittle scrolls. Tonelli guides us expertly through what we know, what we don't know, and what we can only guess. You will find poetry here, and a strong sense of wonder."
Jim Baggott



2020

Path Integral Quantization Mark S. Swanson

Aimed at students and practitioners, this self-contained and concise introduction to the techniques and applications of path integral quantization focuses on quantum mechanics in the Dirac operator and state formalism, and relativistic field theories.



2020

A Course in Game Theory Thomas S. Ferguson

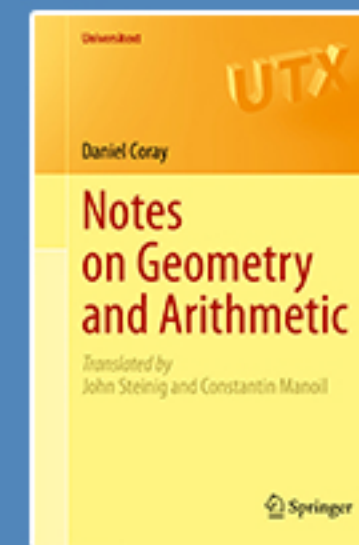
We all know many entertaining games, such as chess, poker, and computer games. But there are also economic, political, psychological and even biological games. The mathematical models offered by this book help readers unveil the fascinating subject of game theory.



2020

The ABC's of Science Giuseppe Mussardo

A fascinating journey into the history of science, an extraordinary opportunity for the reader to meet compelling characters and their vital contributions in diverse fields.



2020

Notes on Geometry and Arithmetic Daniel Coray

An engaging textbook which offers readers a 'hands on' introduction to Diophantine geometry with concrete and interesting problems.



2021

Foundations of Modern Physics Steven Weinberg

Get inspired by the latest in a series of textbooks written by the highly regarded Nobel Laureate Steven Weinberg. Describing the foundations of modern physics in their historical context, the author introduces a broad range of topics covered in compact form.



2020

Laura Bassi The World's First Woman Professor in Natural Philosophy editors: Luisa Cifarelli, Raffaella Simili

Laura Bassi was the first female professor of physics and member of the Academy of Sciences of the Institute of Bologna. This biography highlights the importance of her role, her achievements, and the difficulties she faced.



2021

Symmetry Breaking Franco Strocchi

In its 3rd edition, this by now classic reference on rigorous analysis of symmetry breaking in both classical and quantum field theories adds new topics of relevance and a novel discussion of the physical meaning of global and local gauge symmetries, and their breaking.



2021

Oxide Thin Films and Nanostructures Falko P. Netzer & Claudine Noguera

"Oxides are all over the places on Earth and of paramount importance in modern technologies. The book provides a good equilibrium between technical aspects and applications."
Gerald Bastard, École Normale Supérieure