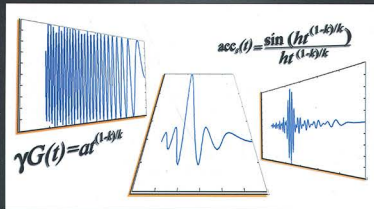


Covers a broad range of topics in statistical physics, including statistical mechanics, soft matter and fluid physics, for applications to biological phenomena at both cellular and macromolecular levels.

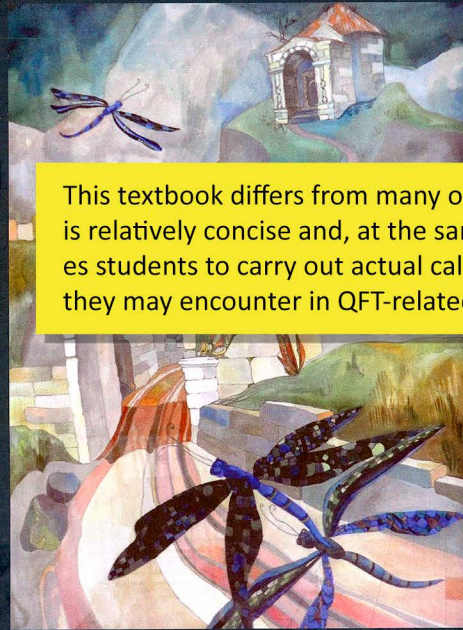
# MRI ESSENTIALS FOR INNOVATIVE TECHNOLOGIES



GIUSEPPE PLACIDI

Describes novel methods to improve magnetic resonance imaging and proposes smart encoding methods and acquisition sequences to deal with frequency displacement.

## Quantum Field Theory II



This textbook differs from many others in that it is relatively concise and, at the same time, teaches students to carry out actual calculations which they may encounter in QFT-related applications.

Mikhail Shifman



## Quantum Mechanics A Simplified Approach

Shabnam Siddiqui

One of the most challenging subjects to learn: quantum phenomenon is counterintuitive, and the mathematics used to explain it is very abstract, and difficult to grasp. This textbook is an attempt to overcome these challenges.

# new in the library

November 2019 - Physics



Image credit:  
X-ray: NASA/CXC/PSU/L. Townsley et al;  
Optical: UKIRT;  
Infrared: NASA/JPL-Caltech

take me with you if you please



Texts & Monographs in Symbolic Computation

Johannes Blümlein  
Carsten Schneider  
Peter Paule *Editors*

## Elliptic Integrals, Elliptic Functions and Modular Forms in Quantum Field Theory

Review articles in the field of elliptic integrals, elliptic functions and modular forms intending to foster the discussion between theoretical physicists and mathematicians.

## Group Theory in Physics *A Practitioner's Guide*

A study of symmetry groups in Physics from a practical perspective, emphasising the explicit methods and algorithms useful for the practitioner and profusely illustrating by examples.

Rutwig Campoamor-Stursberg  
Michel Rausch de Traubenberg

World Scientific

Springer Texts in Statistics

Gareth James  
Daniela Witten  
Trevor Hastie  
Robert Tibshirani

## An Introduction to Statistical Learning

with Applications in R

An essential toolset for making sense of the vast and complex data sets that have emerged in fields ranging from biology to finance to marketing to astrophysics in the past twenty years.

Textbooks in Mathematics

Timothée Marquis

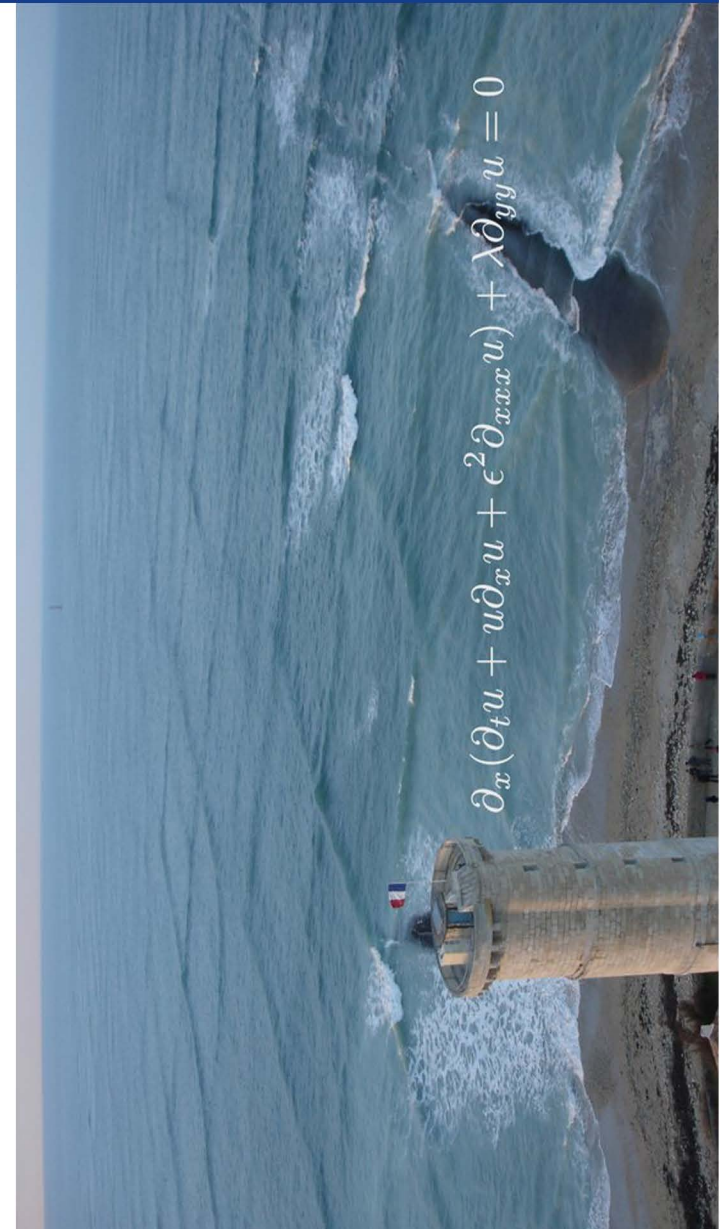
## An Introduction to Kac–Moody Groups over Fields

The interest for Kac–Moody algebras and groups has grown exponentially in the past decades. The aim of this book is to offer a reader-friendly introduction to Kac–Moody algebras and groups and to provide a unified treatment of the theory.

European Mathematical Society

# new in the library

November 2019 - Mathematics



take me with you if you please



# new in the library

November 2019 - Other Fields

Jason Parisi • Justin Ball

"Excellent for the reader who wants to understand the fusion quest."

Dr Bernard Bigot  
Director-General of the ITER project

The gap between the state of fusion energy research and public understanding is vast. In an entertaining and engaging narrative, this popular science book gives readers the basic tools to understand how fusion works, its potential and problems.

## The Future of Fusion Energy

World Scientific

## What Every Postdoc Needs to Know

Liz Elvidge  
Carol Spencely  
Emma Williams

"Easily finding the information you want will make you happy and successful. A captivating book to help everyone learn how to search."

Dr. Nigel Eady, King's College London

Giuseppe Mussardo  
Gaspare Polizzi

## L'infinita scienza di Leopardi

Un viaggio in compagnia di Giacomo Leopardi tra scienza, filosofia e poesia, alla scoperta delle sue grandi passioni scientifiche: la volta celeste, gli astri, la chimica, la materia e l'infinito.



Ada Lovelace's development from her precocious childhood into a gifted, perceptive and knowledgeable mathematician who became part of Victorian London's social and scientific elite.

## ADA LOVELACE

The Making of a Computer Scientist

Christopher Hollings, Ursula Martin and Adrian Rice

DR CRAIG CORMICK

THE SCIENCE OF



## COMMUNICATING SCIENCE

THE ULTIMATE GUIDE



Are you wishing you knew how to better communicate science, without reading hundreds of academic papers and books? Luckily Dr Cormick has done this for you!

take me with you if you please