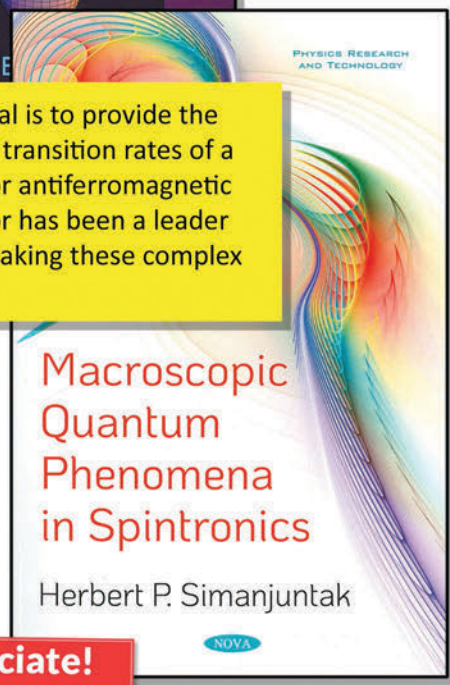
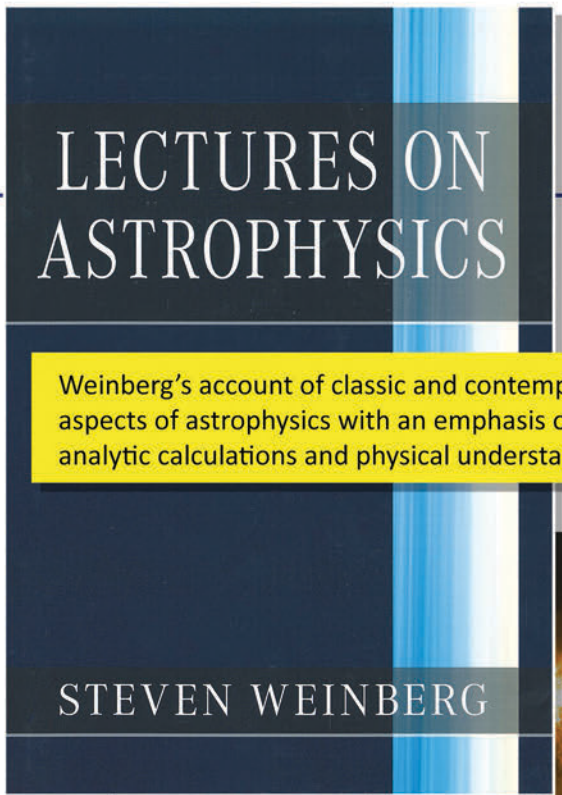


This second edition preserves the readability while expanding the content to include some of the most up-to-date 'essential concepts'.

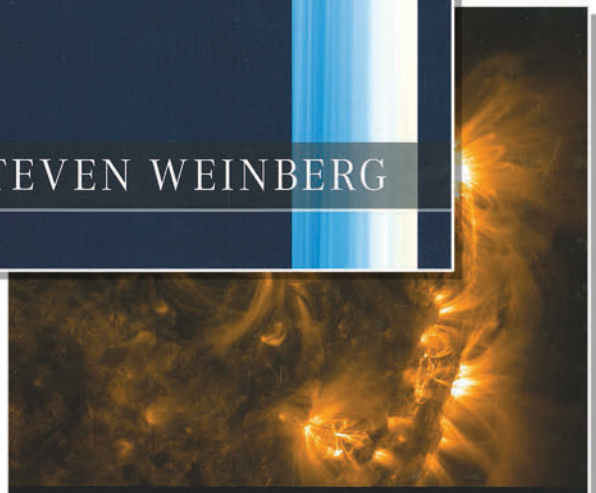
The ultimate goal is to provide the reader with the transition rates of a ferromagnetic or antiferromagnetic layer. The author has been a leader in the field of making these complex calculations.



**ICTP Associate!
1995-2000**



Weinberg's account of classic and contemporary aspects of astrophysics with an emphasis on analytic calculations and physical understanding.



MHD Waves in the Solar Atmosphere
Bernard Roberts

"Highly recommended to those students, post-docs, and researchers who are willing to go further into the fundamental understanding of wave phenomena in astrophysical plasmas."
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Robert J. Zimmer

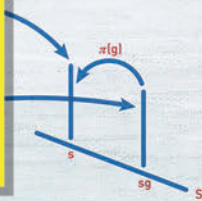
Group Actions in Ergodic Theory, Geometry, and Topology

Selected Papers

WITH A FOREWORD BY
David Fisher,
Alexander Lubotzky,
and Gregory Margulis

EDITED BY David Fisher

Zimmer's selected papers, collected here for the first time, provide a rich context for his now-classic insights on group actions.



Springer Monographs in Mathematics

Wilfredo Urbina-Romero

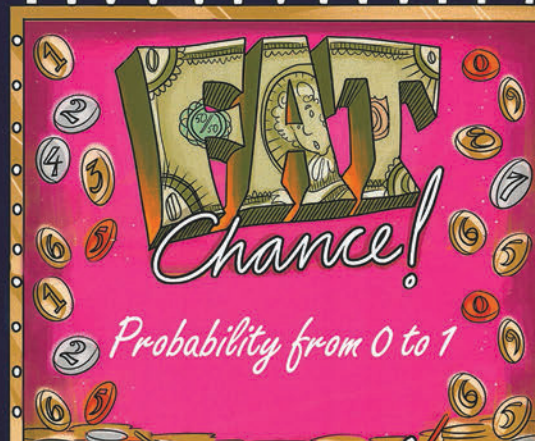
Gaussian Harmonic Analysis

"Well-written and mainly self-contained, this book is a reader-friendly manual in the field of Gaussian harmonic analysis."

M. Perelmuter, zbMATH

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S. Strogatz

Which is Which? Connect The Equation!

Pythagoras's Theorem
Pythagoras, 530 B.C.

$$i\hbar \frac{\partial}{\partial t} \Psi = H\Psi$$

Logarithms
John Napier, 1610

$$\frac{1}{2} \sigma^2 S^2 \frac{\partial^2 V}{\partial S^2} + rS \frac{\partial V}{\partial S} + \frac{\partial V}{\partial t} - rV = 0$$

Calculus
Newton, 1668

$$\frac{\partial^2 u}{\partial t^2} = c^2 \frac{\partial^2 u}{\partial x^2}$$

Law of Gravity
Newton, 1687

$$\Phi(x) = \frac{1}{\sqrt{2\pi\rho}} e^{-\frac{(x-\mu)^2}{2\rho^2}}$$

The Square Root of Minus One
Euler, 1750

$$E = mc^2$$

Euler's Formula for Polyhedra
Euler, 1751

$$\log xy = \log x + \log y$$

Normal Distribution
C.F. Gauss, 1810

$$\nabla \cdot \mathbf{E} = 0 \quad \nabla \cdot \mathbf{H} = 0$$

$$\nabla \times \mathbf{E} = -\frac{1}{c} \frac{\partial \mathbf{H}}{\partial t} \quad \nabla \times \mathbf{H} = \frac{1}{c} \frac{\partial \mathbf{E}}{\partial t}$$

Wave Equation
J. d'Alembert, 1746

$$a^2 + b^2 = c^2$$

Fourier Transform
J. Fourier, 1822

$$\rho \left(\frac{\partial \mathbf{v}}{\partial t} + \mathbf{v} \cdot \nabla \mathbf{v} \right) = -\nabla p + \nabla \cdot \mathbf{T} + \mathbf{f}$$

Navier-Stokes Equation
C. Navier, G. Stokes, 1845

$$i^2 = -1$$

Maxwell's Equations
J.C. Maxwell, 1865

$$F = G \frac{m_1 m_2}{r^2}$$

Second Law of Thermodynamics
L. Boltzmann, 1874

$$x_{t+1} = kx_t(1 - x_t)$$

Relativity
A. Einstein, 1905

$$f(\omega) = \int_{-\infty}^{\infty} f(x) e^{-2\pi i x \omega} dx$$

Schrodinger's Equation
E. Schrodinger, 1927

$$\frac{df}{dt} = \lim_{h \rightarrow 0} \frac{f(t+h) - f(t)}{h}$$

Information Theory
C. Shannon, 1949

$$V - E + F = 2$$

Chaos Theory
Robert May, 1975

$$dS \geq 0$$

Black-Scholes Equation
F. Black, M. Scholes, 1990

$$H = - \sum p(x) \log p(x)$$

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the Secrets of the Universe

infinite powers

STEVEN STROGATZ

"Warning: this book is dangerous. It will make you love mathematics."

N. Taleb, author of 'The Black Swan'

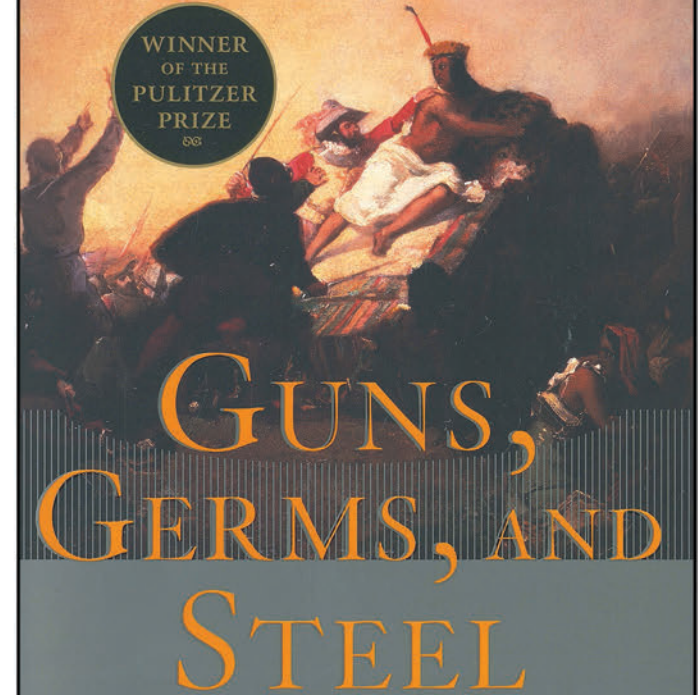
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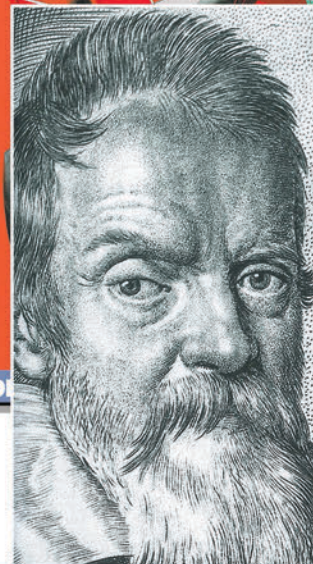
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IOP Expanding Physics

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Surya Raghu
Richard Brooks

Written by experienced scientists and entrepreneurs, this book deals with businesses started by scientists based on innovation.



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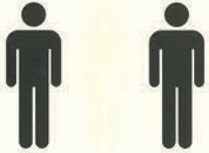
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