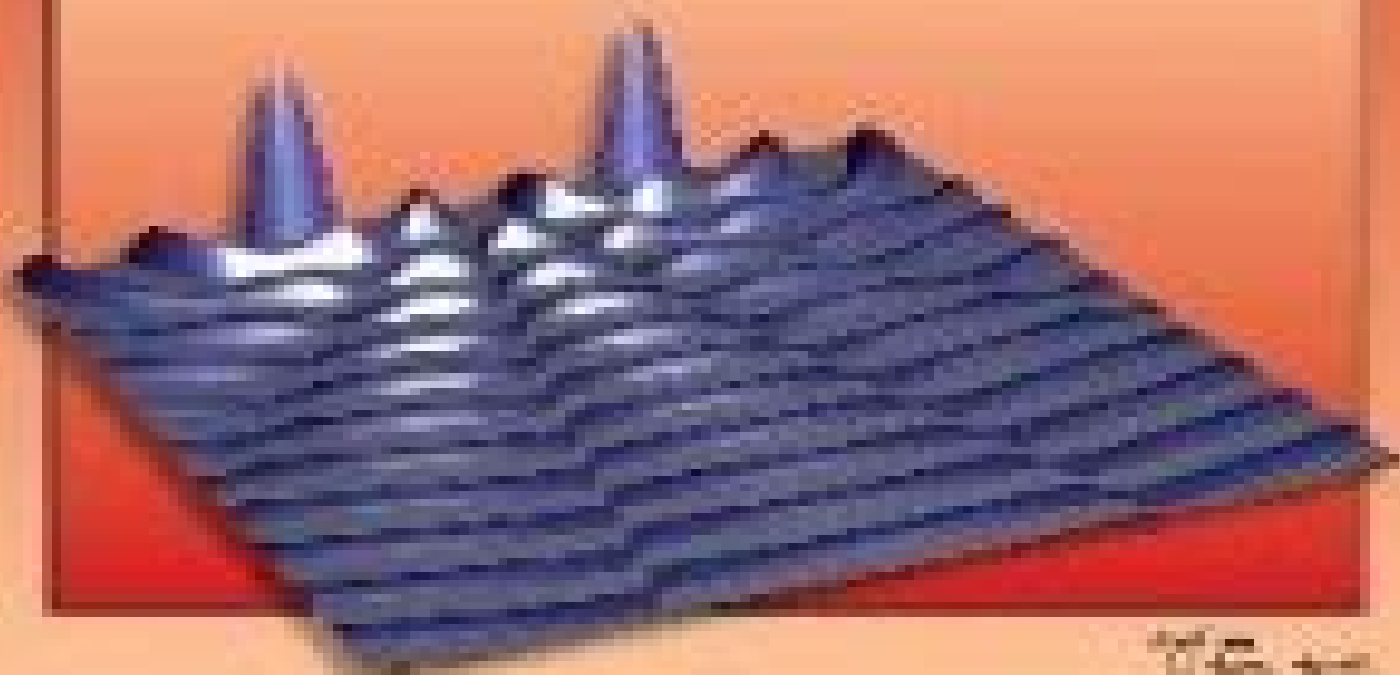


A Physicist's Guide to MATHEMATICA

SECOND EDITION



PATRICK T. TAM



A Physicist's Guide To Mathematica

Lei Shi



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Fractional Calculus: An Introduction For Physicists Richard Herrmann, 2011-02-21 Fractional calculus is undergoing rapid and ongoing development We can already recognize that within its framework new concepts and strategies emerge which lead to new challenging insights and surprising correlations between different branches of physics This book is an invitation both to the interested student and the professional researcher It presents a thorough introduction to the basics of fractional calculus and guides the reader directly to the current state of the art physical interpretation It is also devoted to the application of fractional calculus on physical problems in the subjects of classical mechanics friction damping oscillations group theory quantum mechanics nuclear physics and hadron spectroscopy up to quantum field theory *Fractional Calculus: An Introduction For Physicists (Third Edition)* Richard Herrmann, 2018-07-09 The third edition of this book is designed to carefully and coherently introduce fractional calculus to physicists by applying the ideas to two distinct applications classical problems and multi particle quantum problems There remain many open questions and the field remains an active area of research Dr Herrmann's book is an excellent introduction to this field of study Contemporary Physics The book presents a concise introduction to the basic methods and strategies in fractional calculus which enables the reader to catch up with the state of the art in this field and to participate and contribute in the development of this exciting research area This book is devoted to the application of fractional calculus on physical problems The fractional concept is

applied to subjects in classical mechanics image processing folded potentials in cluster physics infrared spectroscopy group theory quantum mechanics nuclear physics hadron spectroscopy up to quantum field theory and will surprise the reader with new intriguing insights This new extended edition includes additional chapters about numerical solution of the fractional Schrödinger equation self similarity and the geometric interpretation of non isotropic fractional differential operators Motivated by the positive response new exercises with elaborated solutions are added which significantly support a deeper understanding of the general aspects of the theory Besides students as well as researchers in this field this book will also be useful as a supporting medium for teachers teaching courses devoted to this subject

A Physicist's Guide to Mathematica Patrick T. Tam, 2011-08-09 For the engineering and scientific professional A Physicist's Guide to Mathematica Second Edition provides an updated reference guide based on the 2007 new 6.0 release providing an organized and integrated desk reference with step by step instructions for the most commonly used features of the software as it applies to research in physics For professors teaching physics and other science courses using the Mathematica software A Physicist's Guide to Mathematica Second Edition is the only fully compatible new software release Mathematica text that engages students by providing complete topic coverage new applications exercises and examples that enable the user to solve a wide range of physics problems Does not require prior knowledge of Mathematica or computer programming Can be used as either a primary or supplemental text for upper division physics majors Provides over 450 end of section exercises and end of chapter problems Serves as a reference suitable for chemists physical scientists and engineers Compatible with Mathematica Version 6 a recent major release

Doing Physics with Scientific Notebook Joseph Gallant, 2012-05-29 The goal of this book is to teach undergraduate students how to use Scientific Notebook (SNB) to solve physics problems SNB software combines word processing and mathematics in standard notation with the power of symbolic computation As its name implies SNB can be used as a notebook in which students set up a math or science problem write and solve equations and analyze and discuss their results Written by a physics teacher with over 20 years experience this text includes topics that have educational value fit within the typical physics curriculum and show the benefits of using SNB This easy to read text Provides step by step instructions for using Scientific Notebook (SNB) to solve physics problems Features examples in almost every section to enhance the reader's understanding of the relevant physics and to provide detailed instructions on using SNB Follows the traditional physics curriculum so it can be used to supplement teaching at all levels of undergraduate physics Includes many problems taken from the author's class notes and research Aimed at undergraduate physics and engineering students this text teaches readers how to use SNB to solve some everyday physics problems

Basic Semiconductor Physics Chihiro Hamaguchi, 2013-04-17 More than 50 years have passed since the invention of the transistor in December 1947 The study of semiconductors was initiated in the 1930s but we had to wait for 30 years till the 1960s to understand the physics of semiconductors When the transistor was invented it was still unclear whether germanium had a direct gap or indirect gap The

author started to study semiconductor physics in 1960 and the physics was very difficult for a beginner to understand. The best textbook of semiconductors at that time was *Electrons and Holes in Semiconductors* by W Shockley but it required a detailed knowledge of solid state physics to understand the detail of the book. In that period junction transistors and Si bipolar transistors were being produced on a commercial basis and industrialization of semiconductor technology was progressing very rapidly. Later semiconductor devices were integrated and applied to computers successfully resulting in a remarkable demand for semiconductor memories in addition to processors in the late 1970s to 1980s. Now we know that semiconductors play the most important role in information technology as the key devices and we cannot talk about the age of information technology without semiconductor devices. On the other hand the physical properties of semiconductors such as the electrical and optical properties were investigated in detail in the 1950s leading to the understanding of the energy band structures.

Dr. Dobb's Journal, 2002 *Science and Technology of Terrorism and Counterterrorism* Thomas M. Haladyna, 2009-11-04. Traditionally resources on terrorism and counterterrorism tend to focus on the social behavioral and legal aspects of the subject with minimal emphasis on the scientific and technological aspects. Taking into account these practical considerations the second edition of *Science and Technology of Terrorism and Counterterrorism* discusses the natu

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