

Siegfried Brandt • Hans Dieter Döhnen

Quantum Mechanics — on the — Macintosh[®]

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Springer-Verlag



Quantum Mechanics On The Macintosh

Siegmund Brandt, Hans Dieter Dahmen



Quantum Mechanics On The Macintosh:

Quantum Mechanics on the Macintosh® Siegmund Brandt, Hans Dieter Dahmen, 2013-12-11 L Ever since we published our Picture Book of Quantum Mechanics we have been asked to make available the programs we wrote to generate the computer graphics that illustrate the book We have called the result INTERQUANTA the Interactive Program of Quantum Mechanics which we like to abbreviate further by IQ This book is essentially an extensive user's guide for INTERQUANTA The book also contains a short summary of the different subjects of quantum mechanics treated by IQ as well as a large number of exercises The program can be used in two ways By working through at least a part of these exercises the user of IQ explores a computer laboratory in quantum mechanics gaining experience in this abstract field by performing computer experiments No knowledge of computer programming is required The user only has to learn how to use some of the simple IQ commands and in particular the extensive HELP facilities A simpler way to use IQ is to study one or several of the ready made demonstrations In each demonstration the user is taken through one chapter of quantum mechanics Short explanatory texts displayed on the screen interchange with graphics illustrating quantum mechanical problems which are solved by the program *Quantum Mechanics on the Macintosh(r)* Siegmund Brandt, Hans D. Dahmen, 2014-09-01 **Quantum**

Mechanics on the Macintosh® Siegmund Brandt, 1991 Based on the interactive program Interquanta Quantum Mechanics on the Macintosh uses extensive 3 D graphics to guide the student through computer experiments in the quantum mechanics of free particle motion bound states and scattering tunneling two particle interactions and more It also includes a section on special functions of mathematical physics With more than 200 problems the text and programs provide students with practical experiences in using such hard to visualize concepts as complex amplitudes eigenvalues and scattering cross sections The diskettes included with the book provide two versions of the programs one for use in computers with a mathematical coprocessor the other optimized for machines without a coprocessor **Quantum Mechanics on the**

Macintosh® Siegmund Brandt, Hans Dieter Dahmen, 1991-01-01 System requirements for program disks Interquanta 1 2 IQNOCOP 1 2 Macintosh Plus SE SE 30 II Classic LC IIsi IIfx or Portable 1MB memory FORTRAN 77 floppy or hard disk system coprocessor MC68881 or 68882 if running Interquanta Quantum Mechanics on the PC Siegmund

Brandt, Hans-Dieter Dahmen, 1991-06-03 Readers of the book Quantum Mechanics on the PC by Professors Brandt and Dahmen can now use the programs associated with that book on a Macintosh computer The diskette provides a complete set of Interquanta programs for computers with or without a mathematics coprocessor **Quantum mechanics on the**

Macintosh Siegmund Brandt, Hans Dieter Dahmen, 1995 **Quantum Mechanics on the PC** Siegmund

Brandt, Hans-Dieter Dahmen, 1991-06-03 Based on the interactive program Interquanta Quantum Mechanics on the Macintosh uses extensive 3 D graphics to guide the student through computer experiments in the quantum mechanics of free particle motion bound states and scattering tunneling two particle interactions and more It also includes a section on

special functions of mathematical physics With more than 200 problems the text and programs provide students with practical experiences in using such hard to visualize concepts as complex amplitudes eigenvalues and scattering cross sections The diskettes included with the book provide two versions of the programs one for use in computers with a mathematical coprocessor the other optimized for machines without a coprocessor *Schrödinger's Philosophy of Quantum Mechanics* Michael Bitbol, 2012-12-06 This book is the final outcome of two projects My first project was to publish a set of texts written by Schrodinger at the beginning of the 1950 s for his seminars and lectures at the Dublin Institute for Advanced Studies These almost completely forgotten texts contained important insights into the interpretation of quantum mechanics and they provided several ideas which were missing or elusively expressed in SchrOdinger s published papers and books of the same period However they were likely to be misinterpreted out of their context The problem was that current scholarship could not help very much the reader of these writings to figure out their significance The few available studies about SchrOdinger s interpretation of quantum mechanics are generally excellent but almost entirely restricted to the initial period 1925 1927 Very little work has been done on Schrodinger s late views on the theory he contributed to create and develop The generally accepted view is that he never really recovered from his interpretative failure of 1926 1927 and that his late reflections during the 1950 s are little more than an expression of his rising nostalgia for the lost ideal of picturing the world not to say for some favourite traditional picture But the content and style of Schrodinger s texts of the 1950 s do not agree at all with this melancholic appraisal they rather set the stage for a thorough renewal of accepted representations In order to elucidate this paradox I adopted several strategies **The Physical Basis of Biochemistry** Peter R. Bergethon, 2013-03-14 The objective of this book is to provide a unifying approach to the study of biophysical chemistry for the advanced undergraduate who has had a year of physics organic chemistry calculus and biology This book began as a revised edition of *Biophysical Chemistry Molecules to Membranes* which Elizabeth Simons and I coauthored That short volume was written in an attempt to provide a concise text for a one semester course in biophysical chemistry at the graduate level The experience of teaching biophysical chemistry to biologically oriented students over the last decade has made it clear that the subject requires a more fundamental text that unifies the many threads of modern science physics chemistry biology mathematics and statistics This book represents that effort This volume is not a treatment of modern biophysical chemistry with its rich history and many controversies although a book on that topic is also needed *The Physical Basis of Biochemistry* is an introduction to the philosophy and practice of an interdisciplinary field in which biological systems are explored using the quantitative perspective of the physical scientist I have three primary objectives in this volume one to provide a unifying picture of the interdisciplinary threads from which the tapestry of biophysical studies is woven two to provide an insight into the power of the modeling approach to scientific investigation and three to communicate a sense of excitement for the activity and wholesome argument that characterize this field of study Saunders Mac Lane Saunders Mac

Lane, 2005-05-25 Saunders Mac Lane was an extraordinary mathematician a dedicated teacher and a good citizen who cared deeply about the values of science and education In his autobiography he gives us a glimpse of his life and times mixing the highly personal with professional observations His recollections bring to life a century of extraordinary accomplish

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