

G. Mahler
V. A. Weberruß

Quantum Networks

Dynamics
of Open
Nanostructures

Second, Revised
and Enlarged
Edition



Springer

Quantum Networks Dynamics Of Open Nanostructures

Lorenzo Pavesi, Eugenia V. Buzaneva



Quantum Networks Dynamics Of Open Nanostructures:

Quantum Networks Günter Mahler, Volker A. Weberruß, 2013-03-09 Quantum Networks is focused on density matrix theory cast into a representation $SU(n)$ algebra particularly adapted to describing networks of quasi molecular subsystems This approach is important for understanding how classical properties emerge within a quantum mechanical world and how non classical features survive in a classical environment Non classical aspects such as single particle and multi particle coherence are introduced and discussed A picture evolves of how these features are generated and destroyed by interactions with the environment The outcome is a description of how the dynamics of individual quantum systems are interrelated with information dynamics This book will be invaluable for graduates and scientists with a theoretical interest in quantum systems

Quantum Networks Gunter Mahler, Volker Weberruss, 2014-01-15 Quantum Networks Günter Mahler, Volker A. Weberruß, 2013-03-09 Quantum Networks is focused on density matrix theory cast into a product operator representation particularly adapted to describing networks of finite state subsystems This approach is important for understanding non classical aspects such as single subsystem and multi subsystem entanglement An intuitive picture evolves of how these features are generated and destroyed by interactions with the environment This second edition has been revised and enlarged For better clarity the text has been partly reorganized and figures and formulae are presented in a more attractive way

Quantum Foundations And Open Quantum Systems: Lecture Notes Of The Advanced School Theo M Nieuwenhuizen, Claudia Pombo, Claudio Furtado, Andrei Yu Khrennikov, Inacio A Pedrosa, Vaclav Spicka, 2014-10-03 The Advanced School on Quantum Foundations and Open Quantum Systems was an exceptional combination of lectures These comprise lectures in standard physics and investigations on the foundations of quantum physics On the one hand it included lectures on quantum information quantum open systems quantum transport and quantum solid state On the other hand it included lectures on quantum measurement models for elementary particles sub quantum structures and aspects on the philosophy and principles of quantum physics The special program of this school offered a broad outlook on the current and near future fundamental research in theoretical physics The lectures are at the level of PhD students *Quantum Dynamics and Information* Robert Olkiewicz, Wojciech Cegla, Andrzej Frydryszak, 2011 The central theme of this lecture collection is quantum dynamics regarded mostly as the dynamics of entanglement and that of decoherence phenomena Both these concepts appear to refer to the behavior of surprisingly fragile features of quantum systems supposed to model quantum memories and to implement quantum data processing routines This collection may serve as an essential resource for those interested in both theoretical description and practical applications of fundamentals of quantum mechanics

Quantum Dynamics And Information - Proceedings Of The 46th Karpacz Winter School Of Theoretical Physics Robert Olkiewicz, Wojciech Cegla, Andrzej Frydryszak, Lech Jakobczyk, Piotr Garbaczewski, 2010-10-19 The central theme of this lecture collection is quantum dynamics regarded mostly as the dynamics of entanglement and that of decoherence

phenomena Both these concepts appear to refer to the behavior of surprisingly fragile features of quantum systems supposed to model quantum memories and to implement quantum data processing routines This collection may serve as an essential resource for those interested in both theoretical description and practical applications of fundamentals of quantum mechanics

Quantum Information Processing Thomas Beth, Gerd Leuchs, 2006-03-06 Quantum processing and communication is emerging as a challenging technique at the beginning of the new millennium This is an up to date insight into the current research of quantum superposition entanglement and the quantum measurement process the key ingredients of quantum information processing The authors further address quantum protocols and algorithms Complementary to similar programmes in other countries and at the European level the German Research Foundation DFG realized a focused research program on quantum information The contributions written by leading experts bring together the latest results in quantum information as well as addressing all the relevant questions

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Parker,2009-12-16 While applications rapidly change one to the next in our commercialized world fundamental principles
 behind those applications remain constant So if one understands those principles well enough and has ample experience in
 applying them he or she will be able to develop a capacity for reaching results via conceptual thinking rather than having to

Cellular Automata Alejandro Salcido,2011-04-11 Modelling and simulation are disciplines of major importance for science
 and engineering There is no science without models and simulation has nowadays become a very useful tool sometimes
 unavoidable for development of both science and engineering The main attractive feature of cellular automata is that in spite
 of their conceptual simplicity which allows an easiness of implementation for computer simulation as a detailed and complete

mathematical analysis in principle they are able to exhibit a wide variety of amazingly complex behaviour This feature of cellular automata has attracted the researchers attention from a wide variety of divergent fields of the exact disciplines of science and engineering but also of the social sciences and sometimes beyond The collective complex behaviour of numerous systems which emerge from the interaction of a multitude of simple individuals is being conveniently modelled and simulated with cellular automata for very different purposes In this book a number of innovative applications of cellular automata models in the fields of Quantum Computing Materials Science Cryptography and Coding and Robotics and Image Processing are presented Complex-Valued Neural Networks: Utilizing High-Dimensional Parameters Nitta, Tohru, 2009-02-28 This

book covers the current state of the art theories and applications of neural networks with high dimensional parameters Provided by publisher **Entangled Systems** Jürgen Audretsch, 2008-09-26 An introductory textbook for advanced students of physics chemistry and computer science covering an area of physics that has lately witnessed rapid expansion The topics treated here include quantum information quantum communication quantum computing teleportation and hidden parameters thus imparting not only a well founded understanding of quantum theory as such but also a solid basis of knowledge from which readers can follow the rapid development of the topic or delve deeper into a more specialized branch of research Commented recommendations for further reading as well as end of chapter problems help the reader to quickly access the theoretical basics of future key technologies Comprehensive Semiconductor Science and Technology, 2024-11-28

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one comprehensive resource Moves from fundamentals and theory to more advanced knowledge such as applications allowing readers to gain a deeper understanding of the field **What is What in the Nanoworld** Victor E.

Borisenko,Stefano Ossicini,2013-02-21 The third partly revised and enlarged edition of this introductory reference summarizes the terms and definitions most important phenomena and regulations occurring in the physics chemistry technology and application of nanostructures A representative collection of fundamental terms and definitions from quantum physics and chemistry special mathematics organic and inorganic chemistry solid state physics material science and technology accompanies recommended secondary sources for an extended study of any given subject Each of the more than 2 200 entries from a few sentences to a page in length interprets the term or definition in question and briefly presents the main features of the phenomena behind it Additional information in the form of notes First described in Recognition More details in supplements the entries and gives a historical perspective of the subject with reference to further sources Ideal for answering questions related to unknown terms and definitions among undergraduate and PhD students studying the physics of low dimensional structures nanoelectronics and nanotechnology *Quantum-Classical Correspondence* A. O.

Bolivar,2013-04-09 At what level of physical existence does quantum behavior begin How does it develop from classical mechanics This book addresses these questions and thereby sheds light on fundamental conceptual problems of quantum mechanics Quantum Classical Correspondence elucidates the problem by developing a procedure for quantizing stochastic systems e g Brownian systems described by Fokker Planck equations The logical consistency of the scheme is then verified by taking the classical limit of the equations of motion and corresponding physical quantities Perhaps equally important conceptual problems concerning the relationship between classical and quantum physics are identified and discussed Physical scientists will find this an accessible entr e to an intriguing and thorny issue at the core of modern physics *Open Quantum Physics and Environmental Heat Conversion into Usable Energy* Eliade Stefanescu,2017-05-10 The second volume of this book series presents a foundation for describing electron field interactions the basic elements involved in open quantum theory the dissipative couplings of the active elements the quantum injection dot electrons and coherent electromagnetic fields produced by crystal lattice vibrations A microscopic description of the systems of interest is used to explain a number of structural models that describe electron arrangement and mechanics in such systems The explanation of these models depends on a number of numerical parameters and calculations which have been explicitly discussed in detail Readers will gain a better understanding of open quantum systems and energy conversion in semiconductor devices Theoretical calculations presented in this book can also be compared with experimental data from prior experiments The volume is also supplemented by an adequate bibliography which provides useful references This book is a handy text on advanced quantum theory for advanced physics and electronics students and researchers *Optimization and Control of Bilinear Systems* Panos M. Pardalos,Vitaliy A. Yatsenko,2010-03-14 The present book is based on results of scienti c

investigations and on the materials of special courses offered for graduate and undergraduate students. The purpose of this book is to acquaint the reader with the developments in bilinear systems theory and its applications. Particular attention is paid to control of open physical processes functioning in a nonequilibrium mode. The text consists of eight chapters. Chapter 1 is concerned with the problems of systems analysis of bilinear processes. Chapter 2 solves the problem of optimal control of bilinear systems on the basis of differential geometry methods. Chapter 3 deals with the progress made in an adaptive estimation technique. Chapter 4 is devoted to the application of the Yang-Mills fields to investigation of nonlinear control problems. Chapter 5 considers intelligent sensors used to examine weak signals. This chapter also describes and analyzes bilinear models of intelligent sensing elements. Chapter 6 illustrates control problems of a quantum system. Chapter 7 discusses the problems of control and identification in systems with chaotic dynamics. Finally, Chapter 8 examines the controlled processes running in biomolecular systems. This book is directed to students, postgraduate students and specialists engaged in the fields of control of physical processes, quantum and molecular computing, biophysics and physical information science.

Frontiers of Nano-Optoelectronic Systems Lorenzo Pavesi, Eugenia V. Buzaneva, 2012-12-06. Since their discovery, low-dimensional materials have never stopped to intrigue scientists, whether they are physicists, chemists or biochemists. Investigations of their nature and functions have always been and still are numerous, and as soon as a solution is found for a given question, another one is raised. The coupling of nano materials with photonics, i.e. nano photonics, has produced a boiling pot of ideas, problems, discovery and applications. This statement is abundantly illustrated in the present book. The interest in nano optoelectronic materials and systems is very widespread, what gives a really international and multicultural flavour to nano optoelectronic meetings. One of them was organized by our self in May 2000 in Kiev as a NATO Advanced Research Workshop and EC Spring School. The arrival of the new millennium provides an obvious transition point at which many aspects of nano science and nano engineering of nano photonic systems can be assessed with respect to the research progresses made in the preceding decades and to the challenges that lie ahead in the coming decades. This book was planned to mark this with the objective of presenting a collection of papers from experts which provide broad perspectives on the state of the art in the various disciplines of nano science and nano engineering and on the directions for future research.

Object-Oriented Magnetic Resonance Michael Mehring, Volker Achim Weberruss, 2012-12-02. This book presents for the first time a unified treatment of the quantum mechanisms of magnetic resonance including both nuclear magnetic resonance (NMR) and electron spin resonance (ESR). Magnetic resonance is perhaps the most advanced type of spectroscopy and it is applied in biology, chemistry, physics, material science and medicine. If applied in conjunction with spectroscopy, the imaging version of magnetic resonance has no counterpart in any type of experimental technique. The authors present explanations and applications from fundamental to advanced levels. The authors present explanations and applications from fundamental to advanced levels. This groundbreaking volume is accompanied by software which simulates magnetic resonance phenomena.

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