

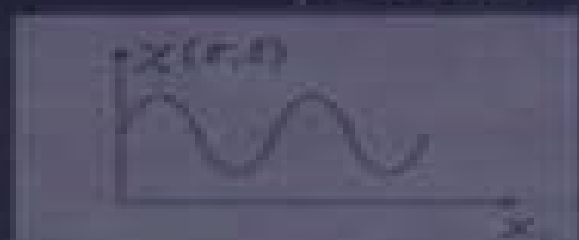
W. Schommers

Symbols, Pictures and Quantum Reality



On the Theoretical Foundations
of the Physical Universe

picture
of reality



World Scientific

Symbols Pictures And Quantum Reality On The Theoretical Foundations Of The Physical Universe

Davide Fiscaletti



Symbols Pictures And Quantum Reality On The Theoretical Foundations Of The Physical Universe:

Symbols, Pictures And Quantum Reality - On The Theoretical Foundations Of The Physical Universe Wolfram Schommers, 1995-02-14 Information about the reality outside flow via our sense organs into the body and the brain forms a picture of reality It is argued that the symbols in the picture have in general no similarity with the objects in the outside world and many facts support such a view This conception is discussed in connection with quantum reality In particular the role of space and time within quantum theory is also investigated from the historical point of view highlighting the original ideas New aspects are covered in connection with the particle concept particle wave dualism locality the time operator the superposition principle and the role of the observer Origin Of Natural Order, The: An Axiomatic Theory Of Biology Qinyi Zhao, 2017-09-22 All sorts of biological activities are processed thermodynamically and at the utmost fundamental level the laws of biology must be thermodynamics However the current laws of thermodynamics are unable to give reasonable explanation of biological processes In order to do so irreversible thermodynamics has been theorized to describe the basic mechanism for the origin of natural order or the development of things related to developmental biology The scientific definition of the system theory concept has been obtained and the properties of a biological system can be analyzed by applying principles of it Irreversible thermodynamics and system theory act as the theoretical foundation for theoretical biology By applying principles of irreversible thermodynamics and system theory the axiomatic theory of biology has been developed Quantum Effects, Heavy Doping, And The Effective Mass Kamakhya Prasad Ghatak, 2016-12-08 The importance of the effective mass EM is already well known since the inception of solid state physics and this first of its kind monograph solely deals with the quantum effects in EM of heavily doped HD nanostructures The materials considered are HD quantum confined nonlinear optical III V II VI IV VI GaP Ge PtSb₂ stressed materials GaSb Te II V Bi₂Te₃ lead germanium telluride zinc and cadmium diphosphides and quantum confined III V II VI IV VI and HgTe CdTe super lattices with graded interfaces and effective mass super lattices The presence of intense light waves in optoelectronics and strong electric field in nano devices change the band structure of semiconductors in fundamental ways which have also been incorporated in the study of EM in HD quantized structures of optoelectronic compounds that control the studies of the HD quantum effect devices under strong fields The importance of measurement of band gap in optoelectronic materials under intense external fields has also been discussed in this context The influences of magnetic quantization crossed electric and quantizing fields electric field and light waves on the EM in HD semiconductors and super lattices are discussed The content of this book finds twenty eight different applications in the arena of nano science and nano technology This book contains 200 open research problems which form the integral part of the text and are useful for both PhD aspirants and researchers in the fields of condensed matter physics materials science solid state sciences nano science and technology and allied fields in addition to the graduate courses in semiconductor nanostructures The book is written for post graduate students researchers

engineers and professionals in the fields of condensed matter physics solid state sciences materials science nanoscience and technology and nanostructured materials in general *Grasping Reality* Hans Lenk,2003 Grasping Reality addresses the methodology of a sophisticated realistic approach to scientific as well as everyday recognition by using schemes and interpretive constructs to analyze theories and the practice of recognition from a hypothesis realistic vantage point An appendix provides an overview regarding a realistic and pragmatic philosophy of technology including the so called new information technologies Timeless Approach, The: Frontier Perspectives In 21st Century Physics Davide Fisialetti,2015-09-08 This invaluable book provides a broad and comprehensive introduction to the fascinating and beautiful subject of timeless approaches in physics focusing the attention in particular on significant models developed recently by the author It presents relevant and novel perspectives in 21st century theoretical physics as regards the arena of physical processes and its geometry both in special relativity quantum mechanics the quantum gravity domain and about the quantum vacuum The timeless approach may be used as a source of reference by researchers in theoretical physics and at the same time it is also suitable for graduate students in physics who wish to have an extend view of some of the classic and fundamental models in the subject **Visible And The Invisible, The: Matter And Mind In Physics** Wolfram Schommers,1998-04-04 How do we get an idea from the physical world There is basically only one possibility namely the dialogue with nature i e we create a theoretical conception of the world by thinking and then we check this conception with the help of measuring instruments In this connection the following question arises Does there exist for each element of the theory an element specific deflection at the measuring instrument In other words has each element of the theory a counterpart in the actual reality If not then the theory contains metaphysical elements i e elements which have no counterpart in reality In this book it is argued that there are obviously no theoretical conceptions of the world which are free of metaphysical elements This is not only valid in connection with matter but also for the conceptions of space and time The consequences in connection with modern conceptions of the world are outlined **Magneto Thermoelectric Power In Heavily Doped Quantized Structures** Kamakhya Prasad Ghatak,2016-01-28 This pioneering monograph solely deals with the Magneto Thermoelectric Power MTP in Heavily Doped HD Quantized Structures The materials considered range from HD quantum confined nonlinear optical materials to HgTe CdTe HD superlattices with graded interfaces and HD effective mass superlattices under magnetic quantization An important concept of the measurement of the band gap in HD optoelectronic materials in the presence of external photo excitation has been discussed in this perspective The influences of magnetic quantization crossed electric and quantizing fields the intense electric field on the TPM in HD semiconductors and superlattices are also discussed This book contains 200 open research problems which form the integral part of the text and are useful for both PhD aspirants and researchers in the various fields for which this particular series is dedicated

Nano-engineering In Science And Technology: An Introduction To The World Of Nano-design Michael Rieth,2003-01-16

This important book provides a vivid introduction to the procedures techniques problems and difficulties of computational nano engineering and design The reader is given step by step the scientific background information for an easy reconstruction of the explanations The focus is laid on the molecular dynamics method which is well suited for explaining the topic to the reader with just a basic knowledge of physics Results and conclusions of detailed nano engineering studies are presented in an instructive style In summary the book puts readers immediately in a position to take their first steps in the field of computational nano engineering and design

Quantum Capacitance In Quantized Transistors Kamakhya

Prasad Ghatak, Jayita Pal, 2024-02-06 In recent years there has been considerable interest in studying the quantum capacitance QC in 2D quantum MOSFETs QMOSFET and 1D Nano Wire FET NWFET devices of various technologically important materials which find extensive applications in many directions in low dimensional electronics The 2D and 1D electron statistics in inversion layers of MOSFETs can rather easily be varied by changing the gate voltage which in turn brings a change of the surface electric field the QC depends on the gate voltage This first of its kind book deals solely with the QC in 2D MOSFETs of non linear optical ternary quaternary III V compounds II VI IV VI stressed Kane type Ge GaP Bismuth telluride Gallium Antimonide and their 1D NWFETs counter parts The influence of quantizing magnetic field crossed electric and magnetic fields parallel magnetic field have also been considered on the QC of the said devices of the aforementioned materials The influences of strong light waves and ultra strong electric field present in nano devices have also been considered The accumulation layers of the quantum effect devices of the said materials have also been discussed in detail by formulating the respective dispersion relations of the heavily doped compounds The QC in 1D MOSFET of the said materials have also been investigated in this context on the basis of newly formulated electron energy spectra in all the cases The QC in quantum well transistors and magneto quantum well transistors together with CNTFETs have been formulated and discussed in detail along with I V equations of ballistic QWFETs and NWFETs together with their heavily doped counter parts under different external physical conditions In this context experimental determinations are suggested of the Einstein relation for the Diffusivity Mobility ratio the Debye screening length Elastic Constants and the content of this book finds twenty two different applications in the arena of nanoscience and nanotechnology This book contains hundred open research problems which form the integral part of the text and are useful for both PhD aspirants and researchers

What is Life?

Hans-Peter Dürr, Fritz Albert Popp, Wolfram Schommers, 2002-01-01 Ch 1 All the colors of a rainbow in a worm or what is life Reinhard Eichelbeck ch 2 Life a problem inherent in the research context Franz Theo Gottwald ch 3 Truth and knowledge Wolfram Schommers ch 4 The formative powers of developing organisms Lev V Belousov ch 5 Electromagnetic symbiotic and informational interactions in the kingdom of organisms Gunter M Rothe ch 6 Dead molecules and the live organism Roeland Van Wijk ch 7 Inanimate and animate matter orderings of immaterial connectedness the physical basis of life Hans Peter Dürr ch 8 Communication basis of life Lebrecht von Klitzing ch 9 Can biological effects emerge from inorganic nano

systems Michael Rieth and Wolfram Schommers ch 10 Substantial and non substantial structure in living systems Jiin Ju Chang Jinzhu Zhang ch 11 On the essence of life a physical but nonreductionistic examination Hans J rgen Fischbeck ch 12 Coherent excitations in living biosystems and their implications a qualitative overview G J Hyland ch 13 Biophotonics a powerful tool for investigating and understanding life Fritz Albert Popp ch 14 Biophoton and the quantum vision of life R P Bajpai ch 15 Quantum mechanics computability theory and life John Swain ch 16 Bose Einstein condensation of photons does it play a vital role in the understanding of life Eberhard M ller

Space and Time, Matter and Mind Wolfram

Schommers,1994 In principle the elements of space and time cannot be measured Therefore the following question arises How are reality and space time related to each other In this book it is argued on the basis of many facts that reality is not embedded but projected onto space and time We can never make statements about the actual reality outside basic reality but we can only form pictures of it These are pictures of the same reality on different levels From this point of view the hard objects matter and the products of the mind are similar in character

Density-of-states Function And Related Applications In Quantized Structures Kamakhya Prasad Ghatak,Arindam Biswas,2025-05-29

In recent years there has been considerable interest in studying the DENSITY OF STATES DOS functions and Related Applications in Quantized Structures of different technologically important materials in low dimensional electronics The concept of DOS function is of fundamental importance for not only the characterization of semiconductor nanostructures but also in the study of the carrier transport in quantum effect devices The acoustic mobility limited momentum relaxation time is inversely proportional to the respective DOS function of a particular semiconductor and the DOS function in turn is connected to the twenty five important transport topics of quantum effect devices namely the Landau Dia and Pauli s Para Magnetic Susceptibilities the Einstein s Photoemission the Einstein Relation the Debye Screening Length the Generalized Raman gain the Normalized Hall coefficient the Fowler Nordheim Field Emission the Gate Capacitance the Thermoelectric Power the Plasma Frequency the Magneto Thermal effect in Quantized Structures the Activity coefficient the Reflection coefficient the Heat Capacity the Faraday rotation the Optical Effective Mass the Carrier contribution to the elastic constants the Diffusion coefficient of the minority carriers the Nonlinear optical response the Third order nonlinear optical susceptibility the Righi Leduc coefficient the Electric Susceptibility the Electric Susceptibility Mass the Electron Diffusion Thermo power and the Hydrostatic Piezo resistance Coefficient respectively This first of a kind monograph investigates the DOS function and the aforementioned applications in quantized structures of tetragonal and non linear optical III V II VI Gallium Phosphide Germanium Platinum Antimonide stressed IV VI Lead Germanium Telluride II V Zinc and Cadmium diphosphides and Bismuth Telluride respectively We have also formulated the same and the allied physical properties of III V II VI IV VI and HgTe CdTe quantum well Heavily Doped HD superlattices with graded interfaces under magnetic quantization III V II VI IV VI and HgTe CdTe HD effective mass superlattices under magnetic quantization quantum confined effective mass superlattices and superlattices of

HD optoelectronic materials with graded interfaces in addition to other quantized structures respectively This book covers from elementary applications in the first chapter up to rather advanced investigations in the later chapters We have suggested experimental determinations of the Einstein relation for the Diffusivity Mobility ratio the Debye screening length and Elastic Constants in various types of quantized structures under different physical conditions This book contains 222 current open research problems which form an integral part of the text and are useful for both aspiring students and researchers It is written for graduate post graduate students engineers and professionals in the fields of condensed matter physics solid state sciences materials science nanoscience nanotechnology and nanostructured materials in general and this book will be invaluable to all those researching in academic and industrial laboratories in the said cases worldwide

Topics In Nanoscience - Part I: Basic Views, Complex Nanosystems: Typical Results And Future Wolfram Schommers, 2021-12-17 With the development of the scanning tunneling microscope nanoscience became an important discipline Single atoms could be manipulated in a controlled manner and it became possible to change matter at its ultimate level it is the level on which the properties of matter emerge This possibility enables to construct and to produce devices materials etc with very small sizes and completely new properties That opens up new perspectives for technology and is in particular relevant in connection with nano engineering Nanosystems are unimaginably small and very fast No doubt this is an important characteristic But there is another feature possibly more relevant in connection with nanoscience and nanotechnology The essential point here is that we work at the ultimate level This is the smallest level at which the properties of our world emerge at which functional matter can exist In particular at this level biological individuality comes into existence This situation can be expressed in absolute terms This is not only the strongest material ever made this is the strongest material it will ever be possible to make D Ratner and M Ratner Nanotechnology and Homeland Security This is a very general statement All aspects of matter are concerned here Through the variation of the composition various forms of matter emerge with different items Nanosystems are usually small but they offer nevertheless the possibility to vary the structure of atomic molecular ensembles creating a diversity of new material specific properties A large variety of experimental possibilities come into play and flexible theoretical tools are needed at the basic level This is reflected in the different disciplines In nanoscience and nanotechnology we have various directions Materials science functional nanomaterials nanoparticles food chemistry medicine with brain research quantum and molecular computing bioinformatics magnetic nanostructures nano optics nano electronics etc The properties of matter which are involved within these nanodisciplines are ultimate in character i e their characteristic properties come into existence at this level The book is organized in this respect

Elastic Constants In Heavily Doped Low Dimensional Materials Kamakhya Prasad Ghatak, Madhuchhanda Mitra, 2021-03-15 The elastic constant EC is a very important mechanical property of the these materials and its significance is already well known in literature This first monograph solely deals with the quantum effects

in EC of heavily doped HD low dimensional materials The materials considered are HD quantum confined nonlinear optical III V II VI IV VI GaP Ge PtSb stressed materials GaSb Te II V Bi Te lead germanium telluride zinc and cadmium diphosphides and quantum confined III V II VI IV VI and HgTe CdTe super lattices with graded interfaces and effective mass super lattices The presence of intense light waves in optoelectronics and strong electric field in nano devices changes the band structure of semiconductors in fundamental ways which have also been incorporated in the study of EC in HD low dimensional optoelectronic compounds that control the studies of the HD quantum effect devices under strong fields The importance of measurement of band gap in optoelectronic materials under intense external fields has also been discussed in this context The influences of magnetic quantization crossed electric and quantizing fields electric field and light waves on the EC in HD semiconductors and super lattices are discussed The content of this book finds twenty five different applications in the arena of nano science and nano technology We The authors have discussed the experimental methods of determining the Einstein Relation screening length and EC in this context This book contains circa 200 open research problems which form the integral part of the text and are useful for both PhD aspirants and researchers in the fields of condensed matter physics materials science solid state sciences nano science and technology and allied fields in addition to the graduate courses in semiconductor nanostructures

Scalar Field Cosmology Sergei Chervon,Igor Fomin,Valerian Yurov,Artyom Yurov,2019-04-29 This monograph discusses cosmological inflation and provides exact and slow roll solutions It also reviews new and advanced approaches of exact solutions construction with canonical scalar fields including application of generating functions methods the superpotential and many others This book presents the reduction of the Friedmann equation to the Abel equation which is a very useful tool in cosmology It offers new solutions and discusses its properties Additionally it touches upon the role of phantom scalar field cosmology and analyzes phantonical models It describes brane cosmology with scalar fields providing exact solutions construction using the superpotential method as well as Darboux transformations This book provides detailed calculations throughout

Subject Guide to Books in Print ,1991

Quantum Theory and Pictures of Reality Wolfram Schommers,2012-12-06 Schommers introduces the foundations mostly from a historical point of view Eberhard gives an introductory account of the Einstein Podolsky Rosen paradox and Bell's celebrated inequalities D Espagnat discusses realism and separability and concludes that contemporary physics does not lead to a definite conception of the world Eberhard shows how a model consistent with Bell's theorem can be constructed by admitting faster than light action at a distance Schommers discusses the structure of space time and argues that physically real processes do not take place in but are projected on space time Selleri discusses the idea that objectively real quantum waves exist and could in principle be detected

Quantum Processes Wolfram Schommers,2011 Space and time are probably the most important elements in physics Within the memory of man all essential things are represented within the frame of space time pictures This is obviously the most basic information What can we say about space and time It is normally assumed that the space is a

container filled with matter and that the time is just that which we measure with our clocks However there are some reasons to take another standpoint and to consider this container conception as unrealistic as prejudice so to say Already the philosopher Immanuel Kant pointed on this serious problem In this monograph the author discusses the so called projection theory In contrast to the container conception reality is embedded in space and time within projection theory the physical reality is projected onto space and time and quantum processes are of particular relevance Like Whitehead and Bergson the author argues for the primacy of process One of the most interesting results is that projection theory automatically leads to a new aspect for the notion of time Here we have not only the time of conventional physics which is exclusively treated as an external parameter but we obtain within projection theory a system specific time Just this system specific time might be of fundamental importance in the future description of physical systems For example the self assembly of nano systems could lead to predictions that are even not thinkable within usual physics Also in connection with cosmology the projection principle must inevitably lead to fundamentally new statements

Foundations Of Modern Physics 1992 - Proceedings Of The Symposium K V Laurikainen, Claus Montonen, 1993-03-27 The lectures focus on the relevance of the Copenhagen interpretation today and on the philosophy of Wolfgang Pauli

Enzyklopädie Philosophie und Wissenschaftstheorie Jürgen Mittelstraß, 2024-03-15 Die Enzyklopädie Philosophie und Wissenschaftstheorie das größte allgemeine Nachschlagewerk zur Philosophie im deutschsprachigen Raum wurde 1980 begonnen und 1996 mit dem vierten Band abgeschlossen Sie erschien 2005 bis 2018 in einer komplett aktualisierten und erweiterten 8 bändigen Neuauflage die hiermit nun in einer kartonierten Sonderausgabe vorliegt Die Enzyklopädie umfasst in Sach und Personenartikeln nicht nur den klassischen Bestand des philosophischen Wissens sondern auch die neuere Entwicklung der Philosophie insbesondere in den Bereichen Logik Erkenntnis und Wissenschaftstheorie sowie Sprachphilosophie Zugleich finden Grundlagenreflexionen in den Wissenschaften und deren Geschichte ausführliche Berücksichtigung Die umfassenden Bibliographien und Werkverzeichnisse wurden für die 2. Auflage in allen Artikeln auf den neuesten Stand gebracht

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