

Biophysik

Ein Lehrbuch

Herausgegeben von
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Biophysik Walter Hoppe, 1977 *Biophysik* W. Hoppe, W. Lohmann, H. Markl, H. Ziegler, 2013-03-08 Mit Beiträgen zahlreicher Fachwissenschaftler *Lehrbuch der Biophysik* Erich Sackmann, Rudolf Merkel, 2010 Die Biophysik bildet die Brücke zwischen der Physik und den Lebenswissenschaften Sie bringt etwas vom Geiste des achtzehnten und neunzehnten Jahrhunderts zurück als Naturforscher wie Thomas Young oder Hermann von Helmholtz die Physiologie begründeten und der Physik völlig neue Gebiete eröffneten Heute ist die Biologische Physik eng mit der Physik Weicher Materie und Komplexer Systeme verknüpft und ein Bestandteil der Statistischen Physik geworden Im vorliegenden Lehrbuch behandeln die renommierten Wissenschaftler Erich Sackmann und Rudolf Merkel ausführlich wichtige Themen wie Zellstruktur neuronale Signalübertragung biologische Membranen Evolution Photosynthese Immunologie und andere Das Buch wendet sich an Studenten der Naturwissenschaften im Haupt und Masterstudium wie auch an Diplomanden und Doktoranden *Classical Methods of Statistics* Otto J.W.F. Kardaun, 2005-09-16 Classical Methods of Statistics is a guidebook combining theory and practical methods It is especially conceived for graduate students and scientists who are interested in the applications of statistical methods to plasma physics Thus it provides also concise information on experimental aspects of fusion oriented plasma physics In view of the first three basic chapters it can be fruitfully used by students majoring in probability theory and statistics The first part deals with the mathematical foundation and framework of the subject Some attention is given to the historical background Exercises are added to help readers understand the underlying concepts In the second part two major case studies are presented which exemplify the areas of discriminant analysis and multivariate profile analysis respectively To introduce these case studies an outline is provided of the context of magnetic plasma fusion research In the third part an overview is given of statistical software separate attention is devoted to SAS and S PLUS The final chapter presents several datasets and gives a description of their physical setting Most of these datasets were assembled at the ASDEX Upgrade Tokamak All of them are accompanied by exercises in form of guided minor case studies The book concludes with translations of key concepts into several languages *The Physics of Protein Structure and Dynamics* Reinhard Schweitzer-Stenner, 2024-09-23 The Physics of Protein Structure and Dynamics looks at various aspects of protein structure and dynamics from a physico chemical point of view It goes into some depth regarding the description of non covalent forces that determine the relative stability of folded and unfolded proteins Anharmonic protein dynamics involving motions between different minima of a rugged Gibbs energy landscape is described in great detail The book combines various aspects of the protein folding unfolding processes with an overview of intrinsically disordered proteins which have attracted considerable interest of the protein community over the last 25 years but are thus far underrepresented in classroom oriented textbooks The book looks at protein folding and intrinsically disordered proteins as heavily interrelated topics that need to be viewed together Furthermore it presents some basic physico chemical aspects of protein peptide self assembly into nanoscale fibrils

Intrinsically disordered peptides and proteins play a major role particularly in aggregation and self assembly processes that lead to various diseases Alzheimer Parkinson Huntington Mad Cow Therefore the relevance of protein disorder for protein self assembly deserves a closer look Protein self assembly cannot be separated from protein folding since it is frequently the product of misfolding With regard to modern theories the folding processes are linked to insights on protein dynamics and the discovered relationship between proteins and spin glasses The readers will benefit from being provided with an in depth overview of the physical concepts that govern different aspects of protein folding disorder and self assembly By emphasizing the relationship between these issues the approach adds a holistic character to the book The book is to a major extent mathematically based Mathematics is part of the language of physicists and physical chemists which cannot be properly substituted by words For instructors the book will offer a unique source for her his teaching of current protein physics issues The way how the book will be constructed multiple references to primary literature with DOI links literature based problem sets and topics for discussion will facilitate a learning process suitable for research oriented students Problem solving frequently requires the writing of short computer programs something that is underemphasized in chemistry and biochemistry education with the exception of computationally trained students of course

Of Matter And Spirit: Selected Essays By Charles P Enz Charles P Enz, 2009-01-14 The essays selected for this book comprise ideas presented in oral or written form between 1972 and 2000 some of them originally in German or French They are preceded by a biographical and topical introduction As the title suggests attention is directed on the one hand toward the material world which is viewed in its extreme spatial extensions of the universe and of the elementary particles In particular the fascinating notion of the void and its fluctuating energy is the subject of various discussions as is the subdivision of material bodies and its limits The latter as well as the limit of gravitational stability are depicted in a diagram leading to the ultimate point of the Planck mass and length The other topic of the title is the spiritual realm which as in the Introduction is based on reflections and quotations from religious texts This rather personal aspect is also apparent in the frequent mention of the author s teacher Wolfgang Pauli who on the psychological side is associated with C G Jung and Marie Louise von Franz and on the physical side with Albert Einstein and the author s colleague Ernest Stueckelberg

Atomkernenergie/Kerntechnik, 1979

The Hypercycle M. Eigen, Peter Schuster, 2012-12-06 This book originated from a series of papers which were published in *Die Naturwissenschaften* in 1977/1978 Its division into three parts is the reflection of a logic structure which may be abstracted in the form of three theses A Hypercycles are a principle of natural selforganization allowing an integration and coherent evolution of a set of functionally coupled self replicative entities B Hypercycles are a novel class of nonlinear reaction networks with unique properties amenable to a unified mathematical treatment C Hypercycles are able to originate in the mutant distribution of a single Darwinian quasi species through stabilization of its diverging mutant genes Once nucleated hypercycles evolve to higher complexity by a process analogous to gene duplication and specialization In order to outline the

meaning of the first statement we may refer to another principle of material selforganization namely to Darwin's principle of natural selection This principle as we see it today represents the only understood means for creating information be it the blue print for a complex living organism which evolved from less complex ancestral forms or be it a meaningful sequence of letters the selection of which can be simulated by evolutionary model games

Neuronal Coding Of Perceptual Systems - Proceedings Of The International School Of Biophysics Werner Backhaus, 2001-10-29 This book provides a most complete overview of physiological and psychophysical properties of perceptual systems in man and animals The information processing chains are described step by step from the stimuli of the respective environments via the perceptual neuronal coding networks to conscious sensations and behaviour Articles by W G K Backhaus A G Clark B Hiley A Iznak M Kavaliers B Kramer A Michelsen C Neumeyer G A Orban T Radil D G Stavenga M Stengl U Thurm R L DeValois R Wehner J S Werner W Wiltschko and related short articles

Constructional Morphology and Evolution Norbert Schmidt-Kittler, Klaus Vogel, 2012-12-06 Constructional morphology explains features of organisms from a constructional and functional point of view By means of physical analysis it explains the operational aspects of organic structures how they can perform the activities organisms are expected to fulfil in order to survive in their environment Constructional morphology also explains options and constraints during the evolution determined by internal constructional needs ontogenetic demands inherited organizational preconditions and environmental clues

Australian Mammal Society, 1984-01

Synergetics Hermann Haken, 2012-12-06 This volume contains most of the invited papers presented at the International Workshop on Synergetics Schloss Elmau Bavaria May 2 to May 7 1977 This workshop followed an International Symposium on Synergetics at Schloss Elmau 1972 and an International Summer School at Erice Sicily 1974 Synergetics is a rather new field of interdisciplinary research which studies the self organized behavior of systems leading to the formation of structures and functionalities Indeed the whole universe seems to be organized with pronounced structures starting from spiral galaxies down to living cells Furthermore very many of the most interesting phenomena occur in systems which are far from thermal equilibrium Synergetics in its present form focusses its attention on those phenomena where dramatic changes occur on a macroscopic scale Here indeed Synergetics was able to reveal profound analogies between systems in different disciplines ranging from physics to sociology This volume contains contributions from various fields but the reader will easily discover their common goal Not only in the natural sciences but also in ecology sociology and economy man is confronted with the problems of complex systems The principles and analogies unearthed by Synergetics will certainly be very helpful to cope with such difficult problems I use this opportunity to thank the Volkswagenwerk Foundation for its support of the project Synergetics and in particular for sponsoring the International Workshop on Synergetics

Photomorphogenesis W.Jr. Shropshire, H. Mohr, 2013-11-11 With contributions by numerous experts

Physikdidaktik Ernst Kircher, Raimund Girwidz, Peter Häußler, 2014-12-04 Physikdidaktik Theorie und Praxis ist ein Sammelband der dynamisch gewachsen ist Der Teil I wurde im

Jahre 2000 in erster Linie für Studierende des Lehramts Physik konzipiert. Der Teil II zeigt Konkretisierungen und im Unterricht erprobte Beispiele zu neueren didaktischen und methodischen Ansätzen, die aus der Pädagogik und der allgemeinen Didaktik für die Physikdidaktik aufbereitet wurden. Die Physikdidaktik befasst sich natürlich auch mit der Frage, welche Elemente aus der modernen Physik in den Unterricht eingehen können und sollen. Vor der Aufbereitung der Inhalte für den Unterricht mit Vereinfachungen und angemessenen didaktischen Reduktionen steht die Sachanalyse und die Zusammenfassung von interessanten Themen aus aktuellen experimentellen und theoretischen Arbeitsgebieten der Physik.

Teil III In der vorliegenden 3. Ausgabe eines Gesamtbandes Physikdidaktik Theorie und Praxis wurden Astrophysik, Elementarteilchenphysik und Biophysik als interessante Beispiele aus der aktuellen physikalischen Forschung ganz neu aufgenommen und durch ausgewiesene Experten dargestellt. Teil IV enthält ausgewählte Beispiele aus der physikdidaktischen Forschung. Wie in den Teilen II und III sind auch in Teil IV neue Arbeiten aufgeführt, die u.a. Einblick in die qualitative und quantitative Unterrichtsforschung der Physikdidaktik gewähren und die u.U. eigene Forschungen anregen und fördern.

Der Inhalt Physikdidaktik Theorie und Praxis besteht aus den vier Teilen Physikdidaktik Teil I Physikdidaktik in der Praxis, Teil II Moderne Teilgebiete des Physikunterrichts, Teil III Aktuelle Beiträge zur Physikdidaktik, Teil IV Die Zielgruppen Studierende des Lehramts Physik, Primarstufe vor allem Sekundarstufe I und II, Referendarinnen und Referendare des Lehramts Physik, Physiklehrerinnen und Physiklehrer, Teilnehmer und Lehrpersonen der 3. Ausbildungsphase, Lehrerfort- und Weiterbildung, Hochschullehrerinnen und Hochschullehrer als Anregung für Forschung und Lehre in der Physikdidaktik.

Die Herausgeber und Autoren Die fünfunddreißig Autorinnen und Autoren sind vorwiegend mit der Physiklehrerbildung an Hochschulen, Universitäten befasst. An der Darstellung von physikalischen Grundlagen aktueller physikalischer Forschung.

Teil III beteiligten sich Physiker aus den beiden Münchner Universitäten LMU und TU und der Universität Würzburg. *Water in Plants Bibliography, Volume 4, 1978* J. Pospíšilová, J. Solárová, 2013-03-09 From the point of view of individual consumer there are too many scientific papers being produced and published every year too many to be looked up in the tremendous and steadily increasing number and volume of scientific periodicals and proceedings from all over the world. This is not only the result of the publish or perish law but also let us hope mainly the result of the increasing amount of true scientific information discovered. Even in a single scientific field too many papers are to be preselected according to the individual interest and to be looked through in order to see what they are reporting on. And of course they are too many in these preselected to be read and studied in detail. At the present nobody will help us with this last link of what is called the information chain. But let us not speak about this lamentable point now! Some tools are already well known and have been used to master more easily the overwhelming flood of scientific production as far as the first selection of information is concerned. Bibliographies covering specific fields are one of these tools. They extremely facilitate the preselection and when carefully indexed they give the user much more than a heap of selected titles. Such a periodic bibliography in the field of

plant water relations is still lacking

Die Physiologische Uhr E. Bünning, 2013-03-07

Cryotechniques in

Biological Electron Microscopy

Rudolf A. Steinbrecht, Karl Zierold, 2012-12-06

To preserve tissue by freezing is an ancient concept going back presumably to the practice of ice age hunters. At first glance it seems as simple as it is attractive: the dynamics of life are frozen in nothing is added and nothing withdrawn except thermal energy. Thus the result should be more life like than after poisoning, tanning and drying a living cell as we may rudely call the conventional preparation of specimens for electron microscopy. Countless mishaps however have taught electron microscopists that cryotechniques too are neither simple nor necessarily more life like in their outcome. Not too long ago experts in cryotechniques strictly denied that a cell could truly be vitrified, i.e. that all the solutes and macro molecules could be fixed within non crystalline glass like solid water without the dramatic shifts and segregation effects caused by crystallization. We now know that vitrification is indeed possible. Growing insight into the fundamentals of the physics of water and ice as well as increasing experience of how to cool cells rapidly enough have enlivened the interest in cryofixation and produced a wealth of successful applications.

Current Research in Photosynthesis M. Baltscheffsky, 2013-11-11

These four volumes with close to one thousand contributions are the proceedings from the VIIIth International Congress on Photosynthesis which was held in Stockholm Sweden on August 6-11 1989. The site for the Congress was the campus of the University of Stockholm. This in itself was an experiment since the campus never before had been used for a conference of that size. On the whole it was a very successful experiment. The outcome of a congress depends on many contributing factors, one major such factor being the scientific vigour of the participants and I think it is safe to say that the participants were vigorous indeed. Many exciting new findings were presented and thoroughly discussed indoors in the discussion sessions as well as outdoors on the lawns. For the local organizing committee it was very rewarding to participate in these activities and to watch some of our younger colleagues for the first time being subjected to the impact of a large international congress. The stimulating effect of this event on the local research atmosphere has been substantial. As was the case with the proceedings from both the 1983 and 1986 Congresses these proceedings have been compiled from camera ready manuscripts and the editing has mainly consisted of finding the proper place for each contribution and distributing the manuscripts into four volumes with some internal logic in each. In this I have had the invaluable help from Dr.

Photosynthesis Bibliography Zdenek Sesták, J. Catský, 2013-11-11

The bibliography includes papers in all fields of photosynthesis research from studies of model biochemical and biophysical systems of the photosynthesis mechanism to primary production studied by the so called growth analysis. In addition to papers devoted entirely to photosynthesis papers on other topics are included if they contain data on photosynthetic activity, photorespiration, chloroplast structure, chlorophyll and carotenoid synthesis and destruction etc. or if they contain valuable methodological information, measurement of selected environmental factors, leaf area etc. In many branches it has been very difficult to define the limits of interest for photosynthesis researchers. This problem has arisen e.g. in topics dealing

with the transport of gases where in addition to the papers on CO transfer some papers on water vapour transfer are included these being of general application On the other hand many papers dealing with the anatomy and physiology of stomata have been omitted if the aspect of carbon dioxide or water vapour exchange has not been discussed This volume contains references to papers published in the year 1977 and similarly to Vol 7 also addenda including references published in the preceding period i e 1966 1976 The numbers of these additional references are labeled with an asterisk in the list of references

Symmetry as a Developmental Principle in Nature and Art Werner Hahn, 1998 Looking beyond the boundaries of various disciplines the author demonstrates that symmetry is a fascinating phenomenon which provides endless stimulation and challenges He explains that it is possible to readapt art to the sciences and vice versa by means of an evolutionary concept of symmetry Many pictorial examples are included to enable the reader to fully understand the issues discussed Based on the artistic evidence that the author has collected he proposes that the new *ars evolutoria* can function as an example for the sciences The book is divided into three distinct parts each one focusing on a special issue In Part I the phenomenon of symmetry including its discovery and meaning is reviewed The author looks closely at how Vitruvius Polyclitus Democritus Plato Aristotle Plotinus Augustine Alberti Leonardo da Vinci and Durer viewed symmetry This is followed by an explanation on how the concept of symmetry developed The author further discusses symmetry as it appears in art and science as well as in the modern age Later he expounds the view of symmetry as an evolutionary concept which can lead to a new unity of science In Part II he covers the points of contact between the form developing process in nature and art He deals with biological questions in particular evolution The collection of new and precise data on perception and knowledge with regard to the postulated reality of symmetry leads to further development of the evolutionary theory of symmetry in Part III The author traces the enormous treasure of observations made in nature and culture back to a few underlying structural principles He demonstrates symmetry as a far reaching leading structuring causal element of evolution as the idea lying behind nature and culture Numerous controllable reproducible double mirror experiments on a new stereoscopic vision verify a symmetrization theory of perception

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