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KEY=THEORETISCHE - BOND HEATH

Theoretical Atomic Physics Springer Science & Business Media This new edition presents the recent developments in atomic physics. Beginning with a review of quantum mechanics, the book covers important areas of theoretical atomic physics, including semiclassical theory, periodic orbit theory, scaling properties for atoms in external fields, threshold behavior of ionization cross sections, and classical quantum dynamics of two-electron atoms. **Arnold Sommerfeld Science, Life and Turbulent Times 1868-1951 Springer Science & Business Media** The subject of the book is a biography of the theoretical physicist Arnold Sommerfeld (1868-1951). Although Sommerfeld is famous as a quantum theorist for the elaboration of the semi-classical atomic theory (Bohr-Sommerfeld model, Sommerfeld's fine-structure constant), his role in the history of modern physics is not confined to atoms and quanta. Sommerfeld left his mark in the history of mathematics, fluid mechanics, a number of physical subdisciplines and, in particular, as founder of a most productive "school" (Peter Debye, Wolfgang Pauli, Werner Heisenberg, Linus Pauling and Hans Bethe were his pupils, to name only the Nobel laureates among them). This biography is to a large extent based on primary source material (correspondence, diaries, unpublished manuscripts). It should be of particular interest to students who are keen to know more about the historical roots of modern science. Sommerfeld lived through turbulent times of German history (Wilhelminian Empire, Weimar Republic, Nazi period). His life, therefore, illustrates how science and scientists perform in changing social environments. From this perspective, the biography should also attract readers with a general interest in the history of science and technology. **Theoretical Atomic Physics Springer Science & Business Media** After a brief review of quantum mechanics and a summary of conventional atomic theory, H. Friedrich discusses the structure of atomic spectra on the basis of quantum defect theory, which is treated for the first time at such a basic level in a textbook. Special attention is given to highly excited states and to the influence of external fields, which can cause intricate and interesting effects in seemingly simple systems. After a chapter on reaction theory the final chapter treats special topics such as multiphoton absorption and chaos. The book contains the kind of advanced quantum mechanics needed for practical applications in modern atomic physics. The presentation is kept deliberately simple and avoids abstract formalism as far as possible. **Theoretical Atomic Physics Springer** This expanded and updated well-established textbook contains an advanced presentation of quantum mechanics adapted to the requirements of modern atomic physics. It includes topics of current interest such as semiclassical theory, chaos, atom optics and Bose-Einstein condensation in atomic gases. In order to facilitate the consolidation of the material covered, various problems are included, together with complete solutions. The emphasis on theory enables the reader to appreciate the fundamental assumptions underlying standard theoretical constructs and to embark on independent research projects. The fourth edition of Theoretical Atomic Physics contains an updated treatment of the sections involving scattering theory and near-threshold phenomena manifest in the behaviour of cold atoms (and molecules). Special attention is given to the quantization of weakly bound states just below the continuum threshold and to low-energy scattering and quantum reflection just above. Particular emphasis is laid on the fundamental differences between long-ranged Coulombic potentials and shorter-ranged potentials falling off faster than $1/r^2$ at large distances r . The new sections on tunable near-threshold Feshbach resonances and on scattering in two spatial dimensions also address problems relevant for current and future research in the field of cold (and ultra-cold) atoms. Graduate students and researchers will find this book a valuable resource and comprehensive reference alike. **Atome — Moleküle — Kerne Band II Molekül- und Kernphysik Springer-Verlag** Die Kapitel Molekülphysik und Kernphysik sind die naturgemäßen Anschlußgebiete an die Atomphysik, deren Grundlagen wir in Band I behandelt haben. Daß wir in der Reihenfolge die Molekülphysik voranstellen, hat keinen zwingenden Grund. Die getroffene Wahl möge den Lesern insofern entgegenkommen, als die Molekülphysik von der bereits aus der Atomphysik bekannten elektromagnetischen Wechselwirkung beherrscht wird, während in der Kernphysik die starke und schwache Wechselwirkung ganz andere, für den Anfänger ungewohnte Behandlungsmethoden verlangen. Mit gutem Grund haben wir der Kernphysik ein einführendes Kapitel über Teilchenphysik hinzugefügt; haben sich die Gewichte dieser beiden Gebiete in den letzten Jahrzehnten doch stetig von der Kernphysik auf die Teilchenphysik verschoben. Die Frage mag sogar berechtigt sein, warum wir den Stoff der Kernphysik nicht noch stärker beschränkt haben. Die Leser werden jedoch feststellen, daß viele Begriffe, Methoden und Gesetzmäßigkeiten der Kernphysik auch Bestandteile der Teilchenphysik sind und sich entlang des historischen Weges der Kernphysik leichter lernen lassen. Um die Einheit beider Bände zu wahren, haben wir die Numerierung der Kapitel und Anhänge des ersten Bandes fortgesetzt. Ebenso wurde die *Markierung schwieriger Abschnitte für Fortgeschrittene beibehalten. Wir gehen aber davon aus, daß die Anfänger beim Studium des ersten Bandes genügend Fachkenntnisse erworben haben, um im zweiten Band auch etwas schwierigere Sachverhalte zu verstehen. Das Literaturverzeichnis umfaßt ausführliche Angaben für beide Bände. Wir haben wiederum versucht, den Stoff in experimenteller und theoretischer Sicht möglichst ausgewogen darzustellen. **American Book Publishing Record Light-matter Interaction A Crash Course for Students of Optics, Photonics and Materials Science Springer Nature** This book offers a didactic introduction to light-matter interactions at both the classical and semi-classical levels. Pursuing an approach that describes the essential physics behind the functionality of any optical element, it acquaints students with the broad areas of optics and photonics. Its rigorous, bottom-up approach to the subject, using model systems ranging from individual atoms and simple molecules to crystalline and amorphous solids, gradually builds up the reader's familiarity and confidence with the subject matter. Throughout the book, the detailed mathematical treatment and examples of practical applications are accompanied by problems with worked-out solutions. In short, the book provides the most essential information for any graduate or advanced undergraduate student wishing to begin their course of study in the field of photonics, or to brush up on important concepts prior to an examination. **Methoden und Verfahren Der Mathematischen Physik Atom- und Quantenphysik Einführung in die experimentellen und theoretischen Grundlagen Springer-Verlag** "...Einer der Vorteile dieses Lehrbuchs beruht auf der Zusammenarbeit zwischen Experimentalphysiker und Theoretiker als Autoren, wobei beide international bekannte und geschätzte Wissenschaftler sind. Dadurch kommen beide Aspekte der Quantenphysik, die entscheidenden Experimente und das mathematische Gerüst, zur Geltung..." (Physikalische Blätter) **Grundkurs Theoretische Physik 5/2 Quantenmechanik - Methoden und Anwendungen Springer-Verlag** Der beliebte Grundkurs Theoretische Physik deckt in sieben Bänden alle für das Diplom maßgeblichen Gebiete ab. Jeder Band vermittelt gut durchdacht das im jeweiligen Semester nötige theoretische-physikalische Rüstzeug. Zahlreiche Übungsaufgaben mit ausführlichen Lösungen dienen der Vertiefung des Stoffes. Der zweite Teil des fünften Bandes befasst sich mit Anwendungen und mit dem Ausbau der im ersten Teil entwickelten Konzepte der Quantenmechanik. Die vorliegende neue Auflage enthält einige neue Aufgaben, wurde überarbeitet und ergänzt. Sie ermöglicht durch die zweifarbige Darstellung einen sehr übersichtlichen und schnellen Zugriff auf den Lehrstoff. **Experimentalphysik 2 Elektrizität und Optik Springer-Verlag** Elektrizität und Optik ist der zweite von vier Bänden zur Experimentalphysik von Professor Demtröder. Die Lehrinhalte des zweiten Semesters Physik werden nach dem Konzept des ersten Bandes leicht verständlich und dabei möglichst quantitativ präsentiert. Wichtige Definitionen und Formeln sowie alle Abbildungen und Tabellen wurden zweifarbig gestaltet, um das Wesentliche deutlicher herauszustellen. Durchgerechnete Beispiele im Text, Kapitelzusammenfassungen sowie Übungsaufgaben mit ausführlichen Lösungen am Schluss des Buches helfen dabei, den Stoff zu bewältigen, und regen zu eigener Mitarbeit an. Viele Illustrationen sowie einige Farbtafeln zu ausgesuchten Themen tragen zum Spaß an diesem Buch bei. Die dritte Auflage wurde grundlegend überarbeitet und erweitert. **Physikalische Zeitschrift Includes section "Besprechungen". Die Berliner Akademie der Wissenschaften Ihre Mitglieder und Preisträger 1700-1990 Walter de Gruyter GmbH & Co KG Handbook of X-Ray Data Springer Science & Business Media** This is the only handbook available on X-ray data. In a concise and informative manner, the most important data connected with the emission of characteristic X-ray lines are tabulated for all elements up to $Z = 95$ (Americium). The tabulated data are characterized and, in most cases, evaluated. Furthermore, all important processes and phenomena connected with the production, emission and detection of characteristic X-rays are discussed. **Fusion Energy Update Spectroscopic and Chromatographic Analysis of Mineral Oil John Wiley & Sons Max von Laue Intrepid and True: A Biography of the Physics Nobel Laureate Springer Nature Energy Research Abstracts Old and New Questions in Physics, Cosmology, Philosophy, and Theoretical Biology Essays in Honor of Wolfgang Yourgrau Springer Science & Business Media** Simply to say that this is a collection of essays in honor of the late Wolfgang Yourgrau (1908-1979) is to explain, at least for the obviously many-"insiders," the unusually wide-ranging title of the present volume. In a Foreword to the Proceedings of the First International Colloquium (focusing on logic, physical reality, and history), held at the University of Denver in May of 1966 under their leadership, Wolfgang Yourgrau and Allen Breck wrote, in an oblique reference to C. P. Snow: "Indeed there are not two or three or four cultures: there is only one culture; our generation has lost its awareness of this Historians, logicians, physicists—all are banded in one common enterprise, namely in their desire to weave an enlightened fabric of human knowledge." Augment, if you will, the foregoing categories of scholars with biologists, philosophers, cosmologists, and theologians—all of whom, in addition to historians, Wolfgang Yourgrau, by dint of his inextinguishable enthusiasm and charismatic qualities, assembled in Denver for the Second and Third International Colloquia (in 1967 and 1974, respectively)—and a few other besides, and one arrives at a statement of the credo which Yourgrau not only professed, but consistently exemplified throughout his adult life. **ERDA Energy Research Abstracts Index Wissenschaftlicher Briefwechsel mit Bohr, Einstein, Heisenberg u.a. / Scientific Correspondence with Bohr, Einstein, Heisenberg a.o. Band/Volume IV Teil/Part IV: 1957-1958 Springer-Verlag** Mit dem Druck von Wolfgang Paulis Briefwechsel aus seinen letzten beiden Lebensjahren wird eine großangelegte Edition der gesamten wissenschaftlichen Korrespondenz eines der bedeutendsten theoretischen Physiker des 20. Jahrhunderts abgeschlossen, der an der Entwicklung der wichtigsten physikalischen Ideen und Theorien, insbesondere an der Relativitätstheorie und Quantentheorie sowie deren weiteren Ausbau zu einer Feld- und Elementarteilchentheorie, teilgenommen hat. Der vorliegende besonders umfangreiche Band mit 711 Briefen behandelt die durch Wu, Telegdi, Lederman u.a. bei den schwachen Wechselwirkungen beobachtete Paritätsverletzung, bei der das einst von Pauli postulierte Neutrino eine herausragende Rolle spielt und die in der Theorie der Elementarteilchen einen allgemeinen Umschwung einleitete. Neue Einblicke vermittelt der Briefwechsel in die enge Zusammenarbeit von Pauli und Heisenberg anlässlich einer damals entwickelten einheitlichen Feldtheorie der Elementarteilchen. This volume of the letters Wolfgang Pauli wrote during the final two years of his life completes the publication of the entire scientific correspondence of one of the most important theoretical physicists of the 20th century. Pauli played a vital role in the development of the most important physical ideas and theories of his time: relativity and quantum mechanics, in particular, and also in their extension to elementary particle field theory. This especially extensive volume covers more than 700 letters between Pauli and scientists such as Wu, Telegdi, Lederman and others, in which he discussed parity violation observed under the weak interaction in which the neutrino (first postulated by Pauli) plays a crucial role. The letters also provide new insights into the close cooperation between Pauli and Heisenberg on their work on the unified field theory of elementary particles, which was being developed at that time. **Die Fakultät für Physik/The Faculty of Physics Böhlau Verlag Wien** The hallmark of Technical Physics at the Faculty of Physics is the close connection between research and teaching. Despite the high level of specialisation required for remaining internationally competitive in cutting-edge research, physics at TU Vienna nevertheless covers a remarkably broad range of topics that can be roughly divided into three core areas: the physics of matter, physical technology and fundamental interactions. This volume is intended to give the non-specialised reader an impression of the outstanding research and teaching done at the Faculty of Physics. **Cultivating Personhood Kant and Asian Philosophy Walter de Gruyter** Authors from all over the world unite in an effort to cultivate dialogue between Asian and Western philosophy. The papers forge a new, East-West comparative path on the whole range of issues in Kant studies. The concept of personhood, crucial for both traditions, serves as a springboard to address issues such as knowledge acquisition and education, ethics and self-identity, religious/political community building, and cross-cultural understanding. Edited by Stephen Palmquist, founder of the Hong Kong Philosophy Cafe and well known for both his Kant expertise and his devotion to fostering philosophical dialogue, the book presents selected and reworked papers from the first ever Kant Congress in Hong Kong, held in May 2009. Among others the contributors are Patricia Kitcher (New York City, USA), Gunther Wohlfahrt (Wuppertal, Germany), Cheng Chung-ying (Hawaii, USA), Sammy Xie Xia-ling (Shanghai, China), Lau Chong-fuk (Hong Kong), Anita Ho (Vancouver/Kelowna, Canada), Ellen Zhang (Hong Kong), Pong Wen-berng (Taipei, Taiwan), Simon Xie Shengjian (Melbourne, Australia), Makoto Suzuki (Aichi, Japan), Kiyoshi Himi (Mie, Japan), Park Chan-Goo (Seoul, South Korea), Chong Chaeh-yun (Seoul, South Korea), Mohammad Raayat Jahromi (Tehran, Iran), Mohsen Abhari Javadi (Qom, Iran), Soraj Hongladarom (Bangkok, Thailand), Ruchira Majumdar (Kolkata, India), A.T. Nuyen (Singapore), Stephen Palmquist (Hong Kong), Christian Wenzel (Taipei, Taiwan), Mario Wenning (Macau). **Karl Rudolf Schmidt: Nutzenergie aus Atomkernen Walter de Gruyter GmbH & Co KG No Time to be Brief A**

Scientific Biography of Wolfgang Pauli *Oxford University Press on Demand* Looks at the life of the German physicist along with an analysis of his scientific work and evolution of his thinking.

Experimentalphysik 3 Atome, Moleküle und Festkörper *Springer-Verlag* Die Lehrinhalte des dritten Semesters Physik werden leicht verständlich und dabei möglichst quantitativ präsentiert. Wichtige Definitionen und Formeln sowie alle Abbildungen und Tabellen wurden zweifarbig gestaltet, um das Wesentliche deutlicher herauszustellen. Mit durchgerechneten Beispielen im Text, Übungsaufgaben nach den Kapiteln mit ausführlichen Lösungen am Ende des Buches; viele Illustrationen, einige Farbtafeln zu ausgesuchten Themen. Neu: Kapitel zu optischen Eigenschaften von Festkörpern und zu Oberflächen.

Molecular Applications of Quantum Defect Theory *Routledge* As a consequence of new experimental techniques in optical and collision physics, such as multiphoton excitation and VUV radiation generation, quantum defect theory (QDT) has become more widely used as a theoretical tool for experimentalists. Drawing together a historical body of work that contains key research and review papers, *Molecular Applications of Quantum Defect Theory* presents a concise and modern coverage of the subject. In the present treatment, special attention is given to the role played by the long-range behaviour of the projectile-target interaction, and a theory is developed, which is well suited to describe near-threshold bound and continuum states in realistic binary systems such as diatomic molecules or molecular ions. It is motivated by the fact that experimental advances have shifted and broadened the scope of applications where concepts from scattering theory are used, e.g. to the field of ultracold atoms and molecules, which has been experiencing enormous growth in recent years, largely triggered by the successful realization of Bose-Einstein condensates of dilute atomic gases in 1995. The book contains sections on special topics such as near-threshold quantization, quantum reflection, Feshbach resonances and the quantum description of scattering in two dimensions. The level of abstraction is kept as low as at all possible and deeper questions related to the mathematical foundations of scattering theory are passed by. It should be understandable for anyone with a basic knowledge of nonrelativistic quantum mechanics. The book is intended for advanced students and researchers, and it is hoped that it will be useful for theorists and experimentalists alike.

Einführung in die Atomphysik *Springer-Verlag* IN DIE ATOMPHYSIK VON WOLFGANG FINKELNBURG ZWEITE, UMGEARBEITETE UND ERWEITERTE AUFLAGE MIT 230 ABBILDUNGEN SPRINGER-VERLAG BERLIN HEIDELBERG GMBH ISBN 978-3-662-01397-7 ISBN 978-3-662-01396-0 (eBook) DOI 10. 1007/978-3-662-01396-0 ALLE RECHTE, INSBESONDERE DAS DER ÜBERSETZUNG IN FREMDE SPRACHEN, VORBEHALTEN. COPYRIGHT 1948 AND 1951 BY SPRINGER-VERLAG BERLIN HEIDELBERG URSPRÜNGLICH ERSCHIENEN BEI SPRINGER-VERLAG BERLIN HEIDELBERG 1951 SOFTCOVER REPRINT OF THE HARDCOVER 2ND EDITION 1951 I DEM ANDENKEN MEINES VATERS PROFESSOR DR. MED. RUDOLF FINKELNBURG GESTORBEN IN BONN WO ER LEHRTE UND BIS ZUR LETZTEN STUNDE ÄRZTLICH WIRKTE AM 10. JUNI 1950 KURZ VOR VOLLENDUNG SEINES 80. LEBENSJAHRES Vorwort zur ersten Auflage. Die Atomphysik oder die Lehre von der Struktur und den auf ihr beruhenden Erscheinungen und Eigenschaften der Materie hat für die gesamte Physik sowie für zahlreiche Zweige der Chemie und Astronomie, der übrigen Naturwissenschaften und neuerdings besonders der Technik, nicht zuletzt aber auch für die Philosophie eine so entscheidende Bedeutung erlangt, daß das Bedürfnis nach einer geschlossenen, alle Gebiete der Mikrophysik einheitlich behandelnden Darstellung immer dringender wurde.

The Historical Development of Quantum Theory *Springer Science & Business Media*

Arbeitsberichte des Rechenzentrums Wissenschaftliche Zeitschrift der Universität Rostock mathematisch-naturwissenschaftliche Reihe Erwin Schrodinger *Atlantica Séguier Frontières*

World Guide to Special Libraries *Walter de Gruyter* The World Guide to Special Libraries lists about 35,000 libraries world wide categorized by more than 800 key words - including libraries of departments, institutes, hospitals, schools, companies, administrative bodies, foundations, associations and religious communities. It provides complete details of the libraries and their holdings, and alphabetical indexes of subjects and institutions.

Molekülkraftkonstanten Zur Theorie und Berechnung der Konstanten der Potentiellen Energie der Moleküle *Springer-Verlag* Wissenschaftliche Forschungsberichte, Reihe I, Abt.A, Band 75

Physics Briefs Physikalische Berichte Long-range Charge Transfer in DNA Medicine, Ethics and Religion A Christian Bioethics and A Philosophy of Life. Preface: Fernando Lolas Stepke *LIT Verlag Münster* *Medicine, Ethics, Religion* addresses three topics that inevitably will be confronted at some level in every human life. Academic understanding of all three fields provides background for entering the field of medicine. Understanding of Bioethics is part of every contemporary student's higher education. The discipline is presented as an important background understanding of contemporary culture for students. This textbook is required reading for an entry-level course in bioethics or for an introductory philosophy course with a focus on medicine. It may also help readers to understand their own lives, adding a religious dimension to the practice of medicine. The doctor-patient relationship, an analysis of contemporary culture, the impact of technology on human life and the interfaces between medical practice, bioethics, and religion are core themes of this volume.

Vorlesungsverzeichnis