Atomic Spectra And Radiative Transitions Springer Series In Chemical Physics

#atomic spectra #radiative transitions #chemical physics #spectroscopy #quantum phenomena

This essential resource, part of the Springer Series in Chemical Physics, delves into the fundamental principles of atomic spectra and radiative transitions. It explores the quantum mechanical processes by which atoms absorb and emit electromagnetic radiation, offering a comprehensive understanding crucial for researchers and students in chemical physics, quantum optics, and atomic physics.

An Introduction to Chemical Kinetics

The book is a short primer on chemical reaction rates based on a six-lecture first-year undergraduate course taught by the author at the University of Oxford. The book explores the various factors that determine how fast or slowly a chemical reaction proceeds and describes a variety of experimental methods for measuring reaction rates. The link between the reaction rate and the sequence of steps that makes up the reaction mechanism is also investigated. Chemical reaction rates is a core topic in all undergraduate chemistry courses.

Tutorials in Molecular Reaction Dynamics

Written by internationally recognised researchers this easy to use textbook on molecular reaction dynamics has the young scientist in mind.

An Introduction to Chemical Kinetics

An Introduction to the Gas Phase is adapted from a set of lecture notes for a core first year lecture course in physical chemistry taught at the University of Oxford. The book is intended to give a relatively concise introduction to the gas phase at a level suitable for any undergraduate scientist. After defining the gas phase, properties of gases such as temperature, pressure, and volume are discussed. The relationships between these properties are explained at a molecular level, and simple models are introduced that allow the various gas laws to be derived from first principles. Finally, the collisional behavior of gases is used to explain a number of gas-phase phenomena, such as effusion, diffusion, and thermal conductivity.

An Introduction to the Gas Phase

The rapidly growing field of astrochemistry focuses on the chemistry occurring in stars, planets, and the interstellar medium, bringing together elements of chemistry, physics, astrophysics, and biology. Astrochemistry describes the chemical history of the Universe, our solar system, and our planet. It explores in some detail the 'alien' chemistry occurring in interstellar gas clouds, the regions where stars and planets are formed, and also looks at the theoretical and experimental methods that allow us to carry out Earth-based studies of astrochemistry. The evolution of the Universe and the complex chemistry occurring both in interstellar space and in the planetary systems that form in these regions is explained primarily in terms of basic principles of physical chemistry. While there is plenty to interest the general reader, this book is aimed at intermediate to advanced undergraduates of chemistry and astrochemistry, highlighting many different aspects of physical chemistry and demonstrating their relevance to the world we live in. This book was written in conjunction with Atmospheric Chemistry: From the Surface to the Stratosphere, Grant Ritchie (2017) World Scientific Publishing.

Astrochemistry

The latest in the 'Tutorial Chemistry Texts' series, 'Basic Atomic and Molecular Spectroscopy' contains chapters on quantization in polyelectronic atoms, molecular vibrations and electronic spectroscopy.

Basic Atomic and Molecular Spectroscopy

The focus of this excellent textbook is the topic of molecular reaction dynamics. The chapters are all written by internationally recognised researchers and, from the outset, the contributors are writing with the young scientist in mind. The easy to use, stand-alone, chapters make it of value to students, teachers, and researchers alike. Subjects covered range from the more traditional topics, such as potential energy surfaces, to more advanced and rapidly developing areas, such as femtochemistry and coherent control. The coverage of reaction dynamics is very broad, so many students studying chemical physics will find elements of this text interesting and useful. Tutorials in Molecular Reaction Dynamics includes extensive references to more advanced texts and research papers, and a series of 'Study Boxes' help readers grapple with the more difficult concepts. Each chapter is thoroughly cross-referenced, helping the reader to link concepts from different branches of the subject. Worked problems are included, and each chapter concludes with a selection of problems designed to test understanding of the subjects covered. Supplementary reading material, and worked solutions to the problems, are contained on a secure website.

Tutorials in Molecular Reaction Dynamics

Understanding the composition and chemistry of the Earth's atmosphere is essential to global ecological and environmental policy making and research. Atmospheric changes as a result of both natural and anthropogenic activity have affected many of the Earth's natural systems throughout history, some more seriously than others, and such changes are ever more evident with increases in both global warming and extreme weather events. Atmospheric Chemistry considers in detail the physics and chemistry of our atmosphere, that gives rise to our weather systems and climate, soaks up our pollutants and protects us from solar UV radiation. The development of the complex chemistry occurring on Earth can be explained through application of basic principles of physical chemistry, as is discussed in this book. It is therefore accessible to intermediate and advanced undergraduates of chemistry, with an interdisciplinary approach relevant to meteorologists, oceanographers, and climatologists. It also provides an ideal opportunity to bring together many different aspects of physical chemistry and demonstrate their relevance to the world we live in. This book was written in conjunction with Astrochemistry: From the Big Bang to the Present Day, Claire Vallance (2017) World Scientific Publishing. Request Inspection Copy

Atmospheric Chemistry

Over recent years there has been marked growth in interest in the study of techniques of cosmic ray physics by astrophysicists and particle physicists. Cosmic radiation is important for the astrophysicist because in the farther reaches of the universe. For particle physicists, it provides the opportunity to study neutrinos and very high energy particles of galactic origin. More importantly, cosmic rays constitue the background, and in some cases possibly the signal, for the more exotic unconfirmed hypothesized particles such as monopoles and sparticles. Concentrating on the highest energy cosmic rays, this book describes where they originate, acquire energy, and interact, in accreting neutron stars, supernova remnants, in large-scale shock waves. It also describes their interactions in the atmosphere

and in the earth, how they are studied in surface and very large underground detectors, and what they tell us.

Cosmic Rays and Particle Physics

In the summer and autumn of 2006 I read several interviews with Brian May in which he mentioned his desire to complete the PhD that he had abandoned in 1974. I looked up the papers he had published while a PhD student, which were on spectroscopic studies of the motion of the dust responsible for the zodiacal light, and felt that there was a basis for a thesis. Since he had been a student at Imperial, I knew, as Head of the Astrophysics Group at Imperial, that it would be good for the Group if he came and worked with us. I got in touch with him by email and suggested he come and talk about it. He replied enthusiastically and said that he was working on typing up what he had completed by 1974. I gradually realized that I was the only staff member at Imperial who had previously worked on zodiacal dust, so that I would have to act as his supervisor. Eventually we met and I tried to assess whether he would be able to find time for the huge amount of work that finishing off a thesis involves, particularly if it has not been touched for over 30 years. Since some of Brian's emails were coming from the recording studio I knew there was strong competition for his time.

A Survey of Radial Velocities in the Zodiacal Dust Cloud

A fully revised new edition of an introductory text to the dynamic and fascinating subject of astrochemistry Since the first edition in 2006 of Astrochemistry, the Mars rovers have driven 31.18 miles, there has been fly-by of Pluto changing it from a 4-pixel world on the Hubble Space Telescope into a mysterious non-planet. There have been visits to asteroids, revisiting Mercury, discovery of the Higgs Boson, discovery of over 2000 extrasolar planets and landing on the comet 67P/Churyumov–Gerasimenko by Rosetta mission – hence the timely publication of this new edition. This core textbook now includes more detailed information on the kinetic modelling of chemistry in the interstellar medium, extending the same principles of physical chemistry to meteor ablation and finally atmospheres and oceans. The increase in density from near-emptiness to 1.35 × 1021 L of water in the world's oceans is used to take single collision kinetics into ensemble thermodynamics. A new introduction of thermodynamic using meteor ablation replaces traditional bomb calorimetry and per-biotic chemistry leads to spontaneous reactions. New to the second edition: An extended discussion on matter, dark or otherwise, interstellar and stellar chemistry and the origin of pre-biotic molecules Detailed chemical kinetic models for mechanisms of chemistry in the interstellar medium Origins of life in solution, enzyme kinetics and catalysis A review of Mars and Titan as habitats for life Fully referenced throughout to reflect the research frontier An introduction to the idea of analytical mathematical engines that can do all of the heavy mathematics and fostering the skill of setting up a model and testing it 200 problems with detailed solutions Written for undergraduate and postgraduate students in astrochemistry or more generally physical chemistry, the new edition of Astrochemistry is an important introductory text to the topic, the latest developments in the field and the ubiquity of physical chemistry.

Astrochemistry

For the past twenty-five years, cinema has been a vital terrain on which feminist debates about culture, representation, and identity have been fought. This anthology charts the history of those debates, bringing together the key, classic essays in feminist film theory. Feminist Film Theory maps the impact of major theoretical developments on this growing field-from structuralism and psychoanalysis in the 1970s, to post-colonial theory, queer theory, and postmodernism in the 1990s. Covering a wide range of topics, including oppressive images, "woman" as fetishized object of desire, female spectatorship, and the cinematic pleasures of black women and lesbian women, Feminist Film Theory is an indispensable reference for scholars and students in the field. Contributors include Judith Butler, Carol J. Clover, Barbara Creed, Michelle Citron, Mary Ann Doane, Teresa De Lauretis, Jane Gaines, Christine Gledhill, Molly Haskell, bell hooks, Claire Johnston, Annette Kuhn, Julia Lesage, Judith Mayne, Tania Modleski, Laura Mulvey, B. Ruby Rich, Kaja Silverman, Sharon Smith, Jackie Stacey, Janet Staiger, Anna Marie Taylor, Valerie Walkerdine, and Linda Williams.

Receptive One-Word Picture Vocabulary Test

Unique in its field, the Encyclopedia of Primary Education brings together a wide-ranging body of information relating to current educational practice in a single indispensable volume. This book provides a series of descriptions, definitions and explanations that engage with important practical and conceptual

ideas in primary education and contains over 500 entries incorporating: Curriculum subjects, themes and topics Theories, policies and educational controversies Pedagogical terms relating to teaching and learning Commentaries on current issues in primary education Influential figures in education, both past and present The impact of educational research on policy and practice Based on the author's extensive experience in primary education, entries combine an interrogation of educational concepts with the pedagogical and practical implications for classroom practice, children's learning and school management. This handy reference work will be invaluable to anyone currently teaching or training to teach at primary level, teaching assistants, school governors and parents. In fact it is essential reading for anyone with an interest and passion for primary education.

Bengalis in London's East End

Properly managed no brand need decay and die - immortality is within the reach of all. If the right decisions, the right resources and the right imagination are brought to bear, brands can renew continuously and outlive their creators.Brand Immortality is a practical health manual for brands of all types and ages that seek immortality. Drawing on the renowned IPA Effectiveness Awards case histories, and full of examples including Nokia, Sony, Nike, Apple and Virgin, it examines how the nature of brands has changed over time and continues to evolve, and the implications this has for marketing. It identifies the factors that are essential to a brand's long term survival - especially those which defend and strengthen a brand's place in the hearts and minds of consumers.Enriched by comments from industry insiders who were directly involved with global brands, Brand Immortality identifies winning brand strategies. Full of experience and insight, it will help marketers and their agencies beat the odds in winning, retaining and satisfying customers - and thus help them achieve brand immortality.

Feminist Film Theory

The calculation of cross sections and rate constants for chemical reactions in the gas phase has long been a major problem in theoretical chemistry. The need for reliable and applicable theories in this field is evident when one considers the significant recent advances that have been made in developing experimental techniques, such as lasers and molecular beams, to probe the microscopic details of chemical reactions. For example, it is now becoming possible to measure cross sections for chemical reactions state selected in the vibrational rotational states of both reactants and products. Furthermore, in areas such as atmospheric, combustion and interstellar chemistry, there is an urgent need for reliable reaction rate constant data over a range of temperatures, and this information is often difficult to obtain in experiments. The classical trajectory method can be applied routinely to simple reactions, but this approach neglects important quantum mechanical effects such as tunnelling and resonances. For all these reasons, the quantum theory of reactive scattering is an area that has received considerable attention recently. This book describes the proceedings of a NATO Advanced Research Workshop held at CECAM, Orsay, France in June, 1985. The Workshop concentrated on a critical examination and discussion of the recent developments in the theory of chemical reaction dynamics, with particular emphasis on quantum theories. Several papers focus on exact theories for reactions.

Encyclopedia of Primary Education

This important book describes the basic principles of astrochemistry—an interdisciplinary field combining astronomy, physics, and chemistry—with particular emphasis on its physical and chemical background. Chemical processes in diffuse clouds, dense quiescent molecular clouds, star-forming regions, and protoplanetary disks are discussed. A brief introduction to molecular spectroscopy and observational techniques is also presented. These contents provide astronomers with a comprehensive understanding of how interstellar matter is evolved and brought into stars and planets, which is ultimately related to the origin of the solar system. The subject matter will also be understandable and useful for physical chemists who are interested in exotic chemical processes occurring in extreme physical conditions. The book is a valuable resource for all researchers beginning at the graduate level.

Brand Immortality

With a strong emphasis on practicality, this book offers comprehensive coverage of the science and operational application of influenza epidemiology, virology and immunology, as well as vaccinology, pharmaceutical and public health measures, biomathematical modelling, policy issues and ethics. Each chapter raises key questions and answers them in clear and concise sections, detailing relevant modelling studies and further reading. This new 2nd Edition is comprehensively updated and includes:*

major lessons from the 2009-10 pandemic* new contributions on surveillance, International Health Regul.

The Theory of Chemical Reaction Dynamics

Written by leading scientists in the field and intended for a broader readership, this is an ideal starting point for an overview of current research and developments. As such, the book covers a broad spectrum of laboratory astrophysics and chemistry, describing recent advances in experiments, as well as theoretical work, including fundamental physics and modeling chemical networks. For researchers as well as students and newcomers to the field.

Introduction to Astrochemistry

Time-resolved optical stimulation of luminescence has become established as an important method for measurement of optically stimulated luminescence. Its enduring appeal is easy to see with the number of materials studied growing from the initial focus on natural minerals such as quartz and feldspar to synthetic dosimeters such as aAl2O3:C, BeO and YAlO3:Mn2+. The aim of time-resolved optical stimulation is to separate in time the stimulation and emission of luminescence. The luminescence is stimulated from a sample using a brief light pulse. The ensuing luminescence can be monitored either during stimulation in the presence of scattered stimulating light or after the light-pulse. The time-resolved luminescence spectrum measured in this way can be resolved into components each with a distinct lifetime. The lifetimes are linked to physical processes of luminescence and thus provide a means to study dynamics involving charge transfer between point-defects in materials. This book is devoted to time-resolved optically stimulated luminescence and is suitable for researchers with an interest in the study of point-defects using luminescence methods. The book first sets the method within the context of luminescence field at large and then provides an overview of the instrumentation used. There is much attention on models for time-resolved optically stimulated luminescence, two of which are analytical and the third of which is based on computational simulation of experimental results. To bring relevance to the discussion, the book draws on examples from studies on quartz and a-Al2O3:C, two materials widely investigated using this method. The book shows how kinetic analysis for various thermal effects such as thermal quenching and thermal assistance can be investigated using time-resolved luminescence. Although use of light sums is an obvious choice for this, contemporary work is discussed to show the versatility of using other alternative methods such the dynamic throughput.

Pandemic Influenza

The book is dedicated to the study of theoretical tools in spin models in magnetism. The book presents the basic tools to treat spin models in magnetic systems such as: spin waves, Schwinger bosons formalism, Self-consistent harmonic approximation, Kubo theory, Perturbation theory using Green's function. Several examples where the theory is applied in modern research, are discussed. Some important areas of interest in magnetism today are spin liquids and magnon topological insulators. Both of these subjects are discussed in the book. The book has been written to help graduate students working in the area of spin models in magnetic systems. There are a lot of books that lead with Green's function, but a student has to study almost the whole book to grasp some idea of the theme. The same is true for the linear response theory and spin liquids. The author believes this book will enable students to start doing research in spin models without the need for extensive reading of the literature.

Laboratory Astrochemistry

This book aims at providing a brief but broad overview of biosignatures. The topics addressed range from prebiotic signatures in extraterrestrial materials to the signatures characterising extant life as well as fossilised life, biosignatures related to space, and space flight instrumentation to detect biosignatures either in situ or from orbit. The book ends with philosophical reflections on the implications of life elsewhere. In the 15 chapters written by an interdisciplinary team of experts, it provides both detailed explanations on the nature of biosignatures as well as useful case studies showing how they are used and identified in ancient rocks, for example. One case study addresses the controversial finding of traces of fossil life in a meteorite from Mars. The book will be of interest not only to astrobiologists but also to terrestrial paleontologists as well as any reader interested in the prospects of finding a second example of life on another planet.

An Introduction to Time-Resolved Optically Stimulated Luminescence

Drawing on a rich array of source materials including previously unseen, fascinating (and often quite moving) oral histories, archival and news media sources, 'Curing queers' examines the plight of men who were institutionalised in British mental hospitals to receive ‘treatment’ for homosexuality and transvestism, and the perceptions and actions of the men and women who nursed them. It examines why the majority of the nurses followed orders in administering the treatment – in spite of the zero success-rate in ‘straightening out’ queer men – but also why a small number surreptitiously defied their superiors by engaging in fascinating subversive behaviours. 'Curing queers' makes a significant and substantial contribution to the history of nursing and the history of sexuality, bringing together two sub-disciplines that combine only infrequently. It will be of interest to general readers as well as scholars and students in nursing, history, gender studies, and health care ethics and law.

Ministerial Code

This paperback reprint of the 1994 edition is a highly regarded curriculum development book by one of the most prominent figures in the field. It is designed to help readers understand the major approaches to curriculum planning and the formation of educational goals. In this edition, Eisner provides a conceptual framework that shows learners the different ways in which the aims of education can be regarded...and, describes their implications for curriculum planning and teaching practices. Coverage is grounded in the belief that the appropriateness of any given educational practice is dependent upon the characteristics and context of the school program, and the values of the community that program serves. Chapter titles include: Schooling in America: Where Are We Headed; Some Concepts, Distinctions, and Definitions; Curriculum Ideologies; The Three Curricula That All Schools Teach; Educational Aims, Objectives, and Other Aspirations; Dimensions of Curriculum Planning; On the Art of Teaching; The Functions and Forms of Evaluation; Reshaping Assessment in Education; Some Examples of Educational Criticism; and A Criticism of an Educational Criticism. For teachers and anyone else involved in planning educational curriculums.

Theoretical Tools for Spin Models in Magnetic Systems

This volume in the highly respected Cambridge History of Science series is devoted to the history of science, medicine and mathematics of the Old World in antiquity. Organized by topic and culture, its essays by distinguished scholars offer the most comprehensive and up-to-date history of ancient science currently available. Together, they reveal the diversity of goals, contexts, and accomplishments in the study of nature in Mesopotamia, Egypt, Greece, Rome, China, and India. Intended to provide a balanced and inclusive treatment of the ancient world, contributors consider scientific, medical and mathematical learning in the cultures associated with the ancient world.

Biosignatures for Astrobiology

« For cancer survivors, physical activity plays an integral role in alleviating symptoms and side effects, reducing fatigue, promoting cognitive function, and improving overall outcomes and quality of life. But despite the evidence supporting the benefits of physical activity and exercise, many survivors find making this lifestyle change intimidating or overwhelming. And healthcare professionals may underestimate the positive impact that physical activity can have on patients during and following cancer treatment. Integrating Physical Activity Into Cancer Care: An Evidence-Based Approach provides essential resources to encourage and support patients to engage in appropriate levels of exercise and physical activity throughout the cancer trajectory. Chapters highlight the benefits of physical activity in different types of cancer, strategies to assess patient motivation and readiness, ways to evaluate exercise tolerance and adherence, and resources and support groups for patients, caregivers, and healthcare professionals. »--

'Curing queers'

"Brings together leading and emerging researchers to advance understanding of the complex relationships between homelessness and health. Covering a wide range of topics from youth homelessness to end-of-life care, contributors outline policy and practice recommendations to respond to this public health crisis."--Back cover.

The Educational Imagination

SHORTLISTED FOR THE ORWELL PRIZE FOR POLITICAL WRITING 2022 THE TIMES SCIENCE BOOK OF THE YEAR A GUARDIAN BEST POLITICS BOOK OF THE YEAR A TOP 5 SUNDAY TIMES BESTSELLER *Revised and updated edition with new chapter reflecting on the impact of Covid-19 two years on, and what come next* Did the UK government really 'follow the science' throughout the Covid-19 pandemic, as it claims? As head of the Wellcome Trust, Jeremy Farrar was one of the first people in the world to hear about a mysterious new disease in China - and to learn it could readily spread between people. A member of the SAGE emergency committee, Farrar was a key figure in both the UK and the World Health Organization at the onset of the Covid-19 pandemic amid great uncertainty, fast-moving situations and missed opportunities. Spike is his widely acclaimed inside story. His account casts light on the UK government's claims to be 'following the science' and is informed not just by Farrar's views but by interviews with other top scientists and political figures.

The Cambridge History of Science: Volume 1, Ancient Science

Astrochemistry, the study of chemistry in space, is a rapidly growing field in astrophysics. Molecules are found everywhere; from our solar system to high-redshift galaxies. Gas-Phase Chemistry in Space: From elementary particles to complex organic molecules addresses the physics and chemistry of astrophysical molecules with a focus on gas-phase processes. Edited by François Lique and Alexandre Faure, alongside a collection of experts in the field, this book introduces essential concepts that govern the formation, excitation and destruction of molecules at postgraduate and research levels. A broad range of topics are covered, including early universe chemistry and stellar nucleosynthesis, and the study of bimolecular reaction kinetics. Detailed descriptions of the gas-phase process are provided and recent examples of the interplay between observational and laboratory astrophysics are examined. Coinciding with the timely arrival of powerful new telescopes, this work examines numerous advances in astrochemistry and paves the way for these advances to be implemented in the future. More than 100 figures are used, alongside examples, providing both theoretical and experimental perspectives. Book jacket.

Kelly's Post Office London Directory

The Advances in Inorganic Chemistry series present timely and informative summaries of the current progress in a variety of subject areas within inorganic chemistry, ranging from bio-inorganic to solid state studies. This acclaimed serial features reviews written by experts in the field and serves as an indispensable reference to advanced researchers. Each volume contains an index, and each chapter is fully referenced. Features comprehensive reviews on the latest developments Includes contributions from leading experts in the field Serves as an indispensable reference to advanced researchers

Integrating Physical Activity Into Cancer Care

The third edition of Astronomical Spectroscopy examines the physics necessary to understand and interpret astronomical spectra. It offers a step-by-step guide to the atomic and molecular physics involved in providing astronomical spectra starting from the relatively simple hydrogen atom and working its way to the spectroscopy of small molecules.Based on UCL course material, this book uses actual astronomical spectra to illustrate the theoretical aspects of the book to give the reader a feel for such spectra as well as an awareness of what information can be retrieved from them. It also provides comprehensive exercises, with answers given, to aid understanding.

Homelessness & Health in Canada

How women MPs have become a force to be reckoned with - Most authoritative and wide-ranging anatomy of a political issue of perennial interest. - Based on interviews with women MPs, including Clare Short, Diane Abbott, Theresa May, Margaret Beckett, Mo Mowlam, Virginia Bottomley...- Already the subject of wide media coverage. - National newspaper serialisation under negotiation. For all the media babble about 'Blair's babes' and Theresa May's leopardskin shoes, the period since the Labour landslide in 1997 has seen a significant shift in the influence of women in the corridors of power - even if many male MPs are unable or unwilling to concede the fact. There are currently more women in the cabinet than ever before (six), and women MPs have had a hitherto unknown effect on policy, pushing such issues as child protection, rape and domestic violence to the centre of the political agenda. Based on extensive interviews with a cross-party group of some 100 MPs, ranging from current and former cabinet ministers to unfamiliar backbenchers, this book analyses the history of women in Parliament, the current period of change, and likely developments in the future.

Case Studies in University-Led Urban Regeneration

Starting with the Big Bang, this book tells the story of the development of chemistry within our universe to the present day.Topics covered include: the spontaneous formation of the first chemical elements; the formation of higher chemical elements through stellar nucleosynthesis; the rich variety of 'alien' chemistry occurring in large interstellar gas clouds; formation of the solar system and evolution of the Earth; and the physical and chemical structure of today's atmosphere. Simple photochemical models are used to explain a range of phenomena such as the greenhouse effect, the formation of the ozone layer and the self-cleansing properties of the troposphere.Astrochemistry and Atmospheric Chemistry is suitable for undergraduates in chemistry and astrophysics, as well as anyone interested in the topic. This is a must-read for those who wish to understand the role of physical chemistry in the formation and current set-up of the world we live in.

Spike

In Global Healing: Literature, Advocacy, Care, Karen Laura Thornber analyzes how narratives from diverse communities globally engage with a broad variety of serious health conditions and advocate for empathic, compassionate, and respectful care that facilitates healing and enables wellbeing.

Gas Phase Chemistry in Space

"Charged Beam Dynamics, Particle Accelerators and Free Electron Lasers' summarises different topics in the field of accelerators and of Free Electron Laser (FEL) devices. It explains how to design both an FEL device and the accelerator providing the driving beam. Covering both theoretical and experimental aspects, this book allows researchers to attempt a first design of an FEL device."--Prové de l'editor.

Theoretical and Computational Inorganic Chemistry

Astronomical Spectroscopy: An Introduction To The Atomic And Molecular Physics Of Astronomical Spectroscopy (Third Edition)

Electron Transfer From Isolated Molecules To Biomolecules Part 1 Advances In Chemical Physics

Electron Transport Chain | Made Easy - Electron Transport Chain | Made Easy by Dr Matt & Dr Mike 92,721 views 11 months ago 11 minutes, 31 seconds - In this video, Dr Mike explains the important role of the **electron**, transport chain in producing energy in the form of ATP!
105-Free Energy of Electron Transfer - 105-Free Energy of Electron Transfer by Fundamentals of Biochemistry 8,445 views 8 years ago 10 minutes, 32 seconds - Principles and thermodynamics of **electron**, transport.
Introduction
Oxidative phosphorylation
Catabolism
Oxidation and Reduction
Example
Change in Free Energy
A Level Chemistry Revision "Shapes of Molecules". - A Level Chemistry Revision "Shapes of

Molecules". by Freesciencelessons 160,618 views 3 years ago 6 minutes, 30 seconds - In this video, we look at the shapes of **molecules**, where there is no lone pair of **electrons**, on the central atom. We explore **electron**, ...
Intro
Threedimensional shapes of molecules
Trigonal shapes of molecules
Metabolism | Electron Transport Chain: Overview - Metabolism | Electron Transport Chain: Overview by Ninja Nerd 626,807 views 6 years ago 31 minutes - In this lecture Professor Zach Murphy will present on a high yield overview of the **Electron**, Transport Chain (ETC). During this ...
The Electron Transport Chain
Recap
Atp Synthase
Intermolecular Forces - Hydrogen Bonding, Dipole-Dipole, Ion-Dipole, London Dispersion Interactions - Intermolecular Forces - Hydrogen Bonding, Dipole-Dipole, Ion-Dipole, London Dispersion Interactions by The Organic Chemistry Tutor 2,005,244 views 7 years ago 45 minutes - This **chemistry**, video tutorial focuses on intermolecular forces such hydrogen bonding, ion-ion interactions, dipole dipole, ion ...
Intro
Ion Interaction
Ion Definition
Dipole Definition
IonDipole Definition
IonDipole Example
DipoleDipole Example
Hydrogen Bond
London Dispersion Force
Intermolecular Forces Strength
Magnesium Oxide
KCl
Methane
Carbon Dioxide
Sulfur Dioxide
Hydrofluoric Acid
Lithium Chloride
Methanol
Solubility
Electron Transport Chain - Electron Transport Chain by Andrey K 126,847 views 9 years ago 15 minutes - Donate here: http://www.aklectures.com/donate.php Website video link: http://www.aklectures.com/lecture/**electron**,-transport-chain ...
What is ubiquinone in etc?
Electron Transport Chain Animation - Electron Transport Chain Animation by Dongem Biology 238,000 views 11 years ago 2 minutes - cellular respiration I. Energy flow & **chemical**, cycling a. Autotrophs -- producers i. Solar energy à **chemical**, energy b. Heterotrophs ...
Webinar18: "Electron and Energy Transfer in Molecules" - Webinar18: "Electron and Energy Transfer in Molecules" by QChemSoftware 2,125 views 9 years ago 1 hour, 4 minutes - Summary: In this webinar, I will go over the theory of **electron**, and energy **transfer**, in **molecules**,, and I will review the definition and ...
Intro
OUTLINE 1. Introduction to Experiments and Phenomenology
Superexchange for EET
The problem of LiF
Derivative Coupling (LiF)
Character of Triplet states Attachment/Detachment Plots
Derivative Coupling Input Code
Application #2: Closs Systems The equitorial-equitorial bridge
Real Time Ab-Initio Dynamics for the Closs systems (Brian Landry)
Diabatic Populations
And...the derivative couplings confirm that the EET goes through a conical intersection
Graphical Proof: Plot diabatic derivative couplings

Conclusions (Part 2)
Final Conclusions: Take-Home Messages The basic functionality for analyzing electronic relaxation (including electron and energy flow is now in Q-Chem)
What is triplet energy transfer?
Conclusions (Part 1) Derivative Couplings are available in Q-Chem between excited states at the CIS/TD-DFT level . We can work beyond TDA (with TDHF or RPA)
Have you ever seen an atom? - Have you ever seen an atom? by nature video 23,883,066 views 10 years ago 2 minutes, 32 seconds - Scientists at the University of California Los Angeles have found a way to create stunningly detailed 3D reconstructing of platinum ...
Electron transport chain - Electron transport chain by Harvard Online 2,517,722 views 6 years ago 7 minutes, 45 seconds - Harvard Professor Rob Lue explains how mitochondrial diseases are inherited and discusses the threshold effect and its ...
Atp Synthase
Complex 1
Complex 2
Supreme Court grills lawyers over electoral bonds - Supreme Court grills lawyers over electoral bonds by Brut India 454,782 views 23 hours ago 4 minutes, 42 seconds - Don't shout at me." This is what happened at the Supreme Court hearing on electoral bonds… : @supremecourtofindia5950 ...
Fundamentals of Quantum Physics. Basics of Quantum Mechanics ⊲Lecture for Sleep & Study - Fundamentals of Quantum Physics. Basics of Quantum Mechanics ⊲Lecture for Sleep & Study by LECTURES FOR SLEEP & STUDY 2,133,292 views 1 year ago 3 hours, 32 minutes - In this lecture, you will learn about the prerequisites for the emergence of such a science as quantum **physics**,, its foundations, and ...
The need for quantum mechanics
The domain of quantum mechanics
Key concepts in quantum mechanics
Review of complex numbers
Complex numbers examples
Probability in quantum mechanics
Probability distributions and their properties
Variance and standard deviation
Probability normalization and wave function
Position, velocity, momentum, and operators
An introduction to the uncertainty principle
Key concepts of quantum mechanics, revisited
The Clearest Image of An ATOM - The Clearest Image of An ATOM by Mr Scientific 37,404 views 1 year ago 2 minutes, 19 seconds - How the researchers at the Cornell University took a clearest picture of an atom. Stay up to date with what's happening in Science!
GCSE Chemistry Revision "Covalent Bonding 1: Bonding in Hydrogen, Chlorine and Hydrogen chloride" - GCSE Chemistry Revision "Covalent Bonding 1: Bonding in Hydrogen, Chlorine and Hydrogen chloride" by Freesciencelessons 8,119 views 1 month ago 5 minutes, 4 seconds - In this video, we look at covalent bonding. I show you how covalent bonding takes place in the **molecules**, hydrogen, chlorine and ...
All of Biology in 9 minutes - All of Biology in 9 minutes by Sciencephile the AI 1,845,830 views 3 years ago 9 minutes, 31 seconds - Biology – a beautiful field of mathematics where division and multiplication are the same thing. Since we're doing bad biology ...
Energy Levels, Energy Sublevels, Orbitals, & Pauli Exclusion Principle - Energy Levels, Energy Sublevels, Orbitals, & Pauli Exclusion Principle by Richard Louie Chemistry Lectures 1,151,587 views 8 years ago 12 minutes, 10 seconds - Energy Levels, Energy Sublevels, Orbitals, & Pauli Exclusion Principle. **Chemistry**, Lecture #21. Note: The concepts in this video ...
Chemistry Lecture #21: Energy Levels, Energy Sublevels, Orbitals, & the Pauli Exclusion Principle In the Bohr model of the atom, electrons circle the nucleus in the same way that planets orbit the sun.
Maximum number of electrons = 2n?
Within each energy level are sublevels. The sublevels are labeled s, p, d, and f. You need to memorize these 4 sublevels.
Within each sublevel, there are orbitals. This is the final location where electrons reside.
We will be using arrows to symbolize spinning electrons.
How Mitochondria Produce Energy - How Mitochondria Produce Energy by CorticalStudios

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The FTL Dream
Relativistic FTL?
Quantum FTL?
Quantum 101
FTL Action at Distance
How to Exploit?
Idea 1: Repeat Measurements
Idea 2: Double Slits
Idea 3: XY Switching
Where From Here?
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Carbonate Ion Co32
Nitrate Ion No3 Minus
Lone Pairs
Lone Pairs Repel More Strongly than Bonding Pairs
Structure of Ammonia
Water
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Introduction
Conservation of Energy
Entropy
Entropy Analogy
Entropic Influence
Absolute Zero
Entropies
Gibbs Free Energy
Change in Gibbs Free Energy
Micelles
Outro
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Two equations: Large vs small
Stoke-Einstein (Large)
When use which equation

Wilke-Chang (small)
Viscosity of solution! (T and C)
Short summary of mass transfer
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Intro
Classical mechanics
Knowing the change in velocity, you can make predictions
Buoyant Force
About 1 Newton
Newton's Law of Universal Gravitation
Energy and thermodynamics
Energy is not a vector
20 mph (32 km/h) faster almost doubles the energy of a car
Total energy is kinetic plus potential
Gasoline has chemical potential energy
Thermodynamic Systems Thermal Energy
Kinetic energy of car converted to thermal energy from friction of the brakes
Entropy is a measure of "disorder," or the information required to describe microstates
2nd law of thermodynamics: Entropy of an isolated system can never decrease
Gasoline more useful for work than heat from exhaust
Exhaust will not rearrange itself to become gasoline
but gasoline can be converted to heat and exhaust
One way flow of entropy appears to be the only reason there is a forward flow of time
Electromagnetism: Study of interaction between electrically charged particles
Moving charges create magnetic fields
Moving magnetic field affects charges
Magnets always have two poles
Faraday's law
Moving magnetic field creates an electrical field
Laws of physics on moving train is same as laws of physics standing still
Energy is not continuous, but is quantized
Heisenberg's Uncertainty Principle uncertainty in momentum
Note: central cluster of electrons exaggerated for illustration. Only a probability cloud exists
Model of hydrogen atom with electron at lowest energy state
A quantum system can be elementary particles
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Introduction
Monosaccharides
Disaccharides
Polysaccharides
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video, we start looking at giant covalent **molecules**,. First we explore what is meant by giant covalent **molecules**, and then we ...
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Giant Calent Substances
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Intro
Topic 6.1 Endothermic and Exothermic Processes
Differentiating between the system and the surroundings
Question 1
Question 2
Question 3
Examples of experiments (solution formation and chemical reactions)
Breaking attractive forces = endothermic; forming attractive forces = exothermic
Review of Topic 2.2 (bond energy)
Temperature Changes and Heat Flow
Topic 6.2 Energy Diagrams
Question 4
Topic 6.3 Heat Transfer and Thermal Equilibrium
Question 5
Topic 6.4 Heat Capacity and Calorimetry
Definition of specific heat capacity and the heat transfer equation
Question 6
Question 7
Question 8
Topic 6.5 Energy of Phase Changes
Question 9
Question 10
Question 11
Question 12
How to ACE Paper 6 IGCSE CHEMISTRY 0620? | A* Tips - How to ACE Paper 6 IGCSE CHEMISTRY 0620? | A* Tips by Dr. Mona Seif 67,528 views 1 year ago 34 minutes - This video Summarizes what you need to know to ace (A*) the IGCSE **Chemistry**, Alternative to Practical Exam (Paper **6**,)!
Laboratory Equipment
Separation Techniques
Titration and Salt Preparation
The Rate of a Reaction
Sources of Error
Methods of Collecting and Drying Gases
The Safety Precautions
The Appearance of some Elements and Compounds
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Intro
Spread out your studying
Eliminate pseudo-studying
Active engagement
Avoid multitasking
The Distributed Practice Technique
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Intro
Study the least but get the best results?
The thought that's holding you back
Less is more?
Deep work
1. 80 20 rule
Why making notes is bad
Why topic questions are the secret
2. Distractions
3. Precise Goals
Conclusion
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Introduction
Topic 1 - Endothermic and Exothermic Processes
Topic 2 - Energy Diagrams
Topic 3 - Heat Transfer and Thermal Equilibrium
Topic 4 - Heat Capacity and Calorimetry
Topic 5 - Energy of Phase Changes
Topic 6 - Introduction to Enthalpy of Reaction
Topic 7 - Bond Enthalpies
Topic 8 - Enthalpy of Formation

Topic 9 - Hess's Law
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Intro
How to Live the Life You Want
Lack of Human Connections Leads to Relationship Pressure
Why the Majority Aren't Satisfied with Their Relationships
The Need to Be Understood
Why Men Struggle More Opening Up in the Relationship
Setting Unreal Expectations When Looking for a Partner
We're Too Picky on Dating Apps
High Expectations, Can They Be Lowered?
Gender Differences in Dating
The Type of People That Seek Bad Partners
How to Help Those People
Financial Differences in Dating
People Are Choosing Not to Have Kids and Get Married
What Happens When a Woman Earns More in the Relationship
The Big Debate on a First Date
Red Flags in First Dates
The Age You Marry Is Linked to Divorce Risk
You Need to Learn to Unknow Yourself
The Impact of Seeking Approval
When Your Friends Sabotage You When You Try to Change
Do Women Express More Emotion Than Men?
Do Our Dreams Have True Meanings?
The Safety of Self-Compassion
The Opposite of Depression Isn't Happiness
The Grief of Heartbreak and How to Recover
How to Help Someone Going Through Heartbreak
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