

Homework Set 2, due Feb. 5, 2020

88.3. The H^+ particle is an unstable baryon, composed of u, d and a quark, but you don't need to know that to solve this problem. The H^+ used to form it has spin $1/2$ and is electrically neutral. Consider decay of the H^+ particle into a proton and a pion π^+ (a spin-0 particle with charge $+e$).

- Find the direction of spin polarization of the H^+ for z -direction (i.e. it can be along $\pm z$ or $\pm x$ or $\pm y$ direction). Using conservation of angular momentum, show the first quark that forms the pion is the u or \bar{u} quark.
- Given going up along $+z$ with spin up, given going down, $\pm 1/2$.
- Compute the probability for decay along z -direction if relative to the initial spin of the H^+ .

Experiment shows that the observed spin depends on β . Show this yields parity conservation?

88.4 Chapter 5, Problems 5.1 to Solution 5, Neglecting. (Please refer to 88.4, see.)

88.8 Chapter 5, Problems 5.8 to Solution 5, Neglecting. (2000 1.1)

88.9 Chapter 5, Problems 5.9 to Solution 5, Neglecting.

88.10 Chapter 5, Problems 5.10 to Solution 5, Neglecting.

88.14 Chapter 5, Problems 5.14 to Solution 5, Neglecting.

88.18 Chapter 5, Problems 5.18 to Solution 5, Neglecting. (2000 1.1)

88.20 Chapter 5, Problems 5.20 to Solution 5, Neglecting.

If you have time, take a look at 88.7 and 88.16, but you don't need to solve them in. If you want to see a very challenging problem, consider trying 88.6.

(Note: 88.10-2 to Solution Problem 5.10. I suggest to keep it as a bonus problem.)

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H.2.1

 a) Δ^+ decays to π^+ and p


b)


 For Δ^+ spin up

$$\begin{aligned} \frac{1}{\sqrt{2}} |+\rangle &= \frac{1}{\sqrt{2}} \begin{pmatrix} uud & -\bar{u}u\bar{d} \\ u\bar{u}d & u\bar{u}d \end{pmatrix} \begin{pmatrix} 1 \\ 0 \end{pmatrix} \\ &= \frac{1}{\sqrt{2}} \begin{pmatrix} uud \\ u\bar{u}d \end{pmatrix} = |+\rangle \end{aligned}$$

 For Δ^+ spin down

$$\begin{aligned} \frac{1}{\sqrt{2}} |-\rangle &= \frac{1}{\sqrt{2}} \begin{pmatrix} uud & -\bar{u}u\bar{d} \\ u\bar{u}d & u\bar{u}d \end{pmatrix} \begin{pmatrix} 0 \\ 1 \end{pmatrix} \\ &= \frac{1}{\sqrt{2}} \begin{pmatrix} -\bar{u}u\bar{d} \\ u\bar{u}d \end{pmatrix} \end{aligned}$$

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C Cleary



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Mathematics and Computing Debdas Ghosh, Debasis Giri, Ram N. Mohapatra, Kouichi Sakurai, Ekrem Savas, Tanmoy Som, 2018-09-28 This book discusses recent advances and research in applied mathematics statistics and their applications in computing It features papers presented at the fourth conference in the series organized at the Indian Institute of Technology Banaras Hindu University Varanasi India on 9 11 January 2018 on areas of current interest including operations research soft computing applied mathematical modelling cryptology and security analysis The conference has emerged as a powerful forum bringing together leading academic scientists experts from industry and researchers and offering a venue to discuss interact and collaborate to stimulate the advancement of mathematics and its applications in computer science The education of future consumers users producers developers and researchers of mathematics and its applications is an important challenge in modern society and as such mathematics and its application in computer science are of vital significance to all spectrums of the community as well as to mathematicians and computing professionals across different educational levels and disciplines With contributions by leading international experts this book motivates and creates interest among young researchers

Water and Biomolecules Kunihiro Kuwajima, Yuji Goto, Fumio Hirata, Masahide Terazima, Mikio Kataoka, 2009-03-18 Life is produced by the interplay of water and biomolecules This book deals with the physicochemical aspects of such life phenomena produced by water and biomolecules and addresses topics including Protein Dynamics and Functions Protein and DNA Folding and Protein Amyloidosis All sections have been written by internationally recognized front line researchers The idea for this book was born at the 5th International Symposium Water and Biomolecules held in Nara city Japan in 2008

Environmental Impacts of Soil Component Interactions P. M. Huang, 2023-07-21 This book addresses the interactions of soil minerals with organics and microbes and their impacts on the dynamics transformations and toxicity of metals metalloids other inorganics and xenobiotics that affect land quality and ecosystem health It is the result of the work group on interactions of soil minerals with organic components and microorganisms in the International Society of Soil Science

Inorganic Reaction Mechanisms J Burgess, 2007-10-31 Specialist Periodical Reports provide systematic and detailed review coverage of progress in the major areas of chemical research Written by experts in their specialist fields the series creates a unique service for the active research chemist supplying regular critical in depth accounts of progress in particular areas of chemistry For over 80 years the Royal Society of Chemistry and its predecessor the Chemical Society have been publishing reports charting developments in chemistry which originally took the form of Annual Reports However by 1967 the whole spectrum of chemistry could no longer be contained within one volume and the series Specialist Periodical Reports was born The Annual Reports themselves still existed but were divided into two and subsequently three volumes covering Inorganic Organic and Physical Chemistry For more general coverage of the highlights in chemistry they remain a must Since that time the SPR series has altered according to the fluctuating degree of activity in various fields of chemistry

Some titles have remained unchanged while others have altered their emphasis along with their titles some have been combined under a new name whereas others have had to be discontinued The current list of Specialist Periodical Reports can be seen on the inside flap of this volume

Synthesis of Power Distribution to Manage Signal Integrity in

Mixed-Signal ICs Balsha R. Stanisic, Rob A. Rutenbar, L. Richard Carley, 2012-12-06 In the early days of VLSI the design of the power distribution for an integrated circuit was rather simple Power distribution the design of the geometric topology for the network of wires that connect the various power supplies the widths of the individual segments for each of these wires the number and location of the power I/O pins around the periphery of the chip was simple because the chips were simpler Few available wiring layers forced floorplans that allowed simple planar non overlapping power networks Lower speeds and circuit density made the choice of the wire widths easier we made them just fat enough to avoid resistive voltage drops due to switching currents in the supply network And we just didn't need enormous numbers of power and ground pins on the package for the chips to work It's not so simple any more Increased integration has forced us to focus on reliability concerns such as metal electromigration which affects wire sizing decisions in the power network Extra metal layers have allowed more flexibility in the topological layout of the power networks

Modern Quantum Mechanics J. J. Sakurai, Jim Napolitano, 2017-09-21 A comprehensive and engaging textbook providing a graduate level non historical modern introduction of quantum mechanical concepts

Addition, Elimination and Substitution: Markovnikov, Hofmann, Zaitsev and Walden David E. Lewis, 2022-07-01 Addition Elimination and Substitution Markovnikov Hofmann Zaitsev and Walden Discovery and Development discusses foundational reactions in organic chemistry and their major protagonists contributions to synthesis and history Hofmann Zaitsev and Markovnikov are introduced along with their major discoveries and contributions to organic chemistry The history of controversies around Markovnikov's Rule are addressed The book introduces Walden's original demonstration of configuration inversion then discusses bimolecular elimination reactions regioselective addition reactions regiospecific alkene synthesis and the development of modern reactions with configuration inversion With its unique perspective focus and comprehensive coverage this book belongs on the shelf of every organic chemist Introduces Markovnikov Zaitsev Hofmann and Walden as actual persons rather than just an abstract term used as a form of shorthand to describe the rules Discusses in depth the discovery and usage of these reactions and rules from their discovery to their most recent applications Includes biographical materials about chemists responsible for major changes in application of the rules Traces the history of the applications of these reactions e.g. anti Markovnikov additions in catalytic organic synthesis and reactions such as the Mitsunobu reaction improving the original SN₂ displacement

Technologies and Eco-innovation towards Sustainability I Allen H. Hu, Mitsutaka Matsumoto, Tsai Chi Kuo, Shana Smith, 2019-01-04

This 2 volume book covers the state of the art of the research and practices on eco design It covers the latest topics in the field e.g. global eco design management big data in eco design social perspectives in eco design as well as emphasizing the

developments in emerging economies such as Asian countries Eco design of products and product related services are indispensable to realize the circular economy and to increase resource efficiencies of our society Eco design practices are necessary both in developed countries and developing countries The book chapters are contributed by the worldwide authors especially authors from East Asian countries European countries and Southeast Asian countries and contains selected presentations at the EcoDesign2017 symposium 10th International Symposium on Environmentally Conscious Design and Inverse Manufacturing The first volume highlights products and services the chapters include the product life cycle design and business strategy technologies for the future and sustainability as well as social perspectives in eco design **Design**

and Analysis of Large Lithium-Ion Battery Systems Shriram Santhanagopalan,Kandler Smith,Jeremy Neubauer,Gi-Heon Kim,Ahmad Pesaran,Matthew Keyser,2014-12-01 This new resource provides you with an introduction to battery design and test considerations for large scale automotive aerospace and grid applications It details the logistics of designing a professional large Lithium ion battery pack primarily for the automotive industry but also for non automotive applications Topics such as thermal management for such high energy and high power units are covered extensively including detailed design examples Every aspect of battery design and analysis is presented from a hands on perspective The authors work extensively with engineers in the field and this book is a direct response to frequently received queries With the authors unique expertise in areas such as battery thermal evaluation and design physics based modeling and life and reliability assessment and prediction this book is sure to provide you with essential practical information on understanding designing and building large format Lithium ion battery management systems Problems of Point Blast Theory V.P.

Korobeinikov,1991-06-04 Problems of Point Blast Theory covers all the main topics of modern theory with the exception of applications to nova and supernova outbursts All the presently known theoretical results are given and problems which are still to be resolved are indicated A special feature of the book is the sophisticated mathematical approach Of interest to specialists and graduate students working in hydrodynamics explosion theory plasma physics mathematical physics and applied mathematics Collection of Papers Contributed on the Occasion of the Celebration of Professor J. Sakurai's Jubilee

Jōji Sakurai,1908 Quantum Mechanics Eugen Merzbacher,1998-01-14 Rapid advances in quantum optics atomic physics particle physics and other areas have been driven by fantastic progress in instrumentation especially lasers and computing technology as well as by the ever increasing emphasis on symmetry and information concepts requiring that all physicists receive a thorough grounding in quantum mechanics This book provides a carefully structured and complete exposition of quantum mechanics and illustrates the common threads linking many different phenomena and subfields of physics

Cryopreservation and Freeze-Drying Protocols John G. Day,Mark R. McLellan,2008-02-02 The storage of biological material for regular or future use is a fundamental requirement in many biological and medical sciences Cryopreservation and freeze drying are the preferred techniques for achieving long term storage and have been applied to a diverse range of

biological materials Though the basis for many methodologies is common laboratories frequently lack expertise with the correct storage procedures so that many apply outdated or inappropriate protocols for storing their samples or cultures Cryopreservation and Freeze Drying Protocols is a compilation of the many and varied methodologies that have been developed in expert laboratories The protocols are reproducible robust and in most instances have been transferred quite successfully to other laboratories Our intended readers are those proposing to establish or improve biostorage systems in their own laboratories or units whether concerned with culture collections animal husbandry aquaculture or human fertilization programs Because the emphasis of Cryopreservation and Freeze Drying Protocols is on methodology it is our intention to provide readers with the tools to make practical progress without reference to other sources Each chapter deals with an organelle cell or tissue type a short introduction on the status of its biostorage development is followed by a detailed description of the materials required and a methodological protocol to be followed with explanatory notes This is very much a first edition we hope and trust that future editions will contain cryopreservation and freeze drying protocols for cells tissues and organs that are at present still recalcitrant to successful preservation

Collected Papers Robert J. Aumann, 2000

Robert Aumann's career in game theory has spanned over research from his doctoral dissertation in 1956 to papers as recent as January 1995 Threaded through all of Aumann's work symbolized in his thesis on knots is the study of relationships between different ideas between different phenomena and between ideas and phenomena When you look closely at one scientific idea writes Aumann you find it hitched to all others It is these hitches that I have tried to study The papers are organized in several categories general knot theory decision theory utility and subjective probability strategic games coalitional games and mathematical methods Aumann has written an introduction to each of these groups that briefly describes the content and background of each paper including the motivation and the research process and relates it to other work in the collection and to work by others There is also a citation index that allows readers to trace the considerable body of literature which cites Aumann's own work

Bulletin of the Chemical Society of Japan Nihon Kagakkai, 1986

Solution Thermodynamics and its Application to Aqueous Solutions Yoshikata Koga, 2007-11-12 As the title suggests we introduce a novel differential approach to solution thermodynamics and use it for the study of aqueous solutions We evaluate the quantities of higher order derivative than the normal thermodynamic functions We allow these higher derivative data speak for themselves without resorting to any model system We thus elucidate the molecular processes in solution referred to in this book mixing scheme to the depth equal to if not deeper than that gained by spectroscopic and other methods We show that there are three composition regions in aqueous solutions of non electrolytes each of which has a qualitatively distinct mixing scheme The boundary between the adjacent regions is associated with an anomaly in the third derivatives of G The loci of the anomalies in the temperature composition field form the line sometimes referred as Koga line We then take advantage of the anomaly of a third derivative quantity of 1 propanol in the ternary aqueous solution 1 propanol sample

species H₂O We use its induced change as a probe of the effect of a sample species on H₂O In this way we clarified what a hydrophobe or a hydrophile and in turn an amphiphile does to H₂O We also apply the same methodology to ions that have been ranked by the Hofmeister series We show that the kosmotropes salting out or stabilizing agents are either hydrophobes or hydration centres and that chaotropes salting in or destabilizing agents are hydrophiles A new differential approach to solution thermodynamics A particularly clear elucidation of the mixing schemes in aqueous solutions A clear understandings on the effects of hydrophobes hydrophiles and amphiphiles to H₂O A clear understandings on the effects of ions on H₂O in relation to the Hofmeister effect A new differential approach to studies in multi component aqueous solutions

Multicomponent Reactions Raquel P. Herrera, Eugenia Marqués-López, 2015-04-01 Addressing a dynamic aspect of organic chemistry this book describes synthetic strategies and applications for multicomponent reactions including key routes for synthesizing complex molecules Illustrates the crucial role and the important utility of multicomponent reactions MCRs to organic syntheses Compiles novel and efficient synthetic multicomponent procedures to give readers a complete picture of this class of organic reactions Helps readers to design efficient and practical transformations using multicomponent reaction strategies Describes reaction background applications to synthesize complex molecules and drugs and reaction mechanisms

VLSI Tomasz Wojcicki, 2017-12-19 Recently the world celebrated the 60th anniversary of the invention of the first transistor The first integrated circuit IC was built a decade later with the first microprocessor designed in the early 1970s Today ICs are a part of nearly every aspect of our daily lives They help us live longer and more comfortably and do more faster All this is possible because of the relentless search for new materials circuit designs and ideas happening on a daily basis at industrial and academic institutions around the globe Showcasing the latest advances in very large scale integrated VLSI circuits VLSI Circuits for Emerging Applications provides a balanced view of industrial and academic developments beyond silicon and complementary metal oxide semiconductor CMOS technology From quantum dot cellular automata QCA to chips for cochlear implants this must have resource Investigates the trend of combining multiple cores in a single chip to boost performance of the overall system Describes a novel approach to enable physically unclonable functions PUFs using intrinsic features of a VLSI chip Examines the VLSI implementations of major symmetric and asymmetric key cryptographic algorithms hash functions and digital signatures Discusses nonvolatile memories such as resistive random access memory ReRAM magnetoresistive RAM MRAM and floating body RAM FB RAM Explores organic transistors soft errors photonics nanoelectromechanical NEM relays reversible computation bioinformatics asynchronous logic and more VLSI Circuits for Emerging Applications presents cutting edge research design architectures materials and uses for VLSI circuits offering valuable insight into the current state of the art of micro and nanoelectronics

High-Velocity Impact Phenomena Ray Kinslow, 2012-12-02 High Velocity Impact Phenomena covers a wide range of pertinent topics dealing with impact phenomena The book discusses hypervelocity accelerators stress wave propagation in solids and the theory of impact

The text also describes the application of the theory of impact on thin targets and shields and correlation with experiment the numerical evaluation of hypervelocity impact phenomena and analytical studies of impact generated shock propagation The equation of state of solids from shock wave studies metallurgical observations and energy partitioning and engineering considerations in hypervelocity impact are also encompassed Design engineers will find the book invaluable **Quantum Principles and Particles** Walter Wilcox, 2016-04-19 A Novel Pedagogical Approach to Quantum Mechanics A physical understanding is a completely unmathematical imprecise and inexact thing but absolutely necessary for a physicist R Feynman The core of modern physics quantum theory is counter intuitive and challenging for those new to the field Quantum Principles and Particles presents the fundam

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