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Summaries of FY ... Research in the Chemical Sciences 1984

Functional Metagenomics: Tools and Applications Trevor C. Charles 2017-10-09 In this book, the latest tools available for functional metagenomics research are described. This research enables scientists to directly access the genomes from diverse microbial genomes at one time and study these "metagenomes". Using the modern tools of genome sequencing and cloning, researchers have now been able to harness this astounding metagenomic diversity to understand and exploit the diverse functions of microorganisms. Leading scientists from around the world demonstrate how these approaches have been applied in many different settings, including aquatic and terrestrial habitats, microbiomes, and many more environments. This is a highly informative and carefully presented book, providing microbiologists with a summary of the latest functional metagenomics literature on all specific habitats.

Instructor's Solutions Manual to Accompany Atkins' Physical Chemistry, Ninth Edition C. A. Trapp 2010 The Instructor's solutions manual to accompany Atkins' Physical Chemistry provides detailed solutions to the 'b' exercises and the even-numbered discussion questions and problems that feature in the ninth edition of Atkins' Physical Chemistry . The manual is intended for instructors and consists of material that is not available to undergraduates. The manual is free to all adopters of the main text.

Paralysis Resource Guide Sam Maddox 2015 The Paralysis Resource Guide, produced by the Christopher & Dana Reeve Foundation, is a reference and lifestyle tool for people affected by paralysis. The book includes details on medical and clinical subjects related to all causes of paralysis, as well as health maintenance information. The fully-illustrated book provides a detailed overview of biomedical research, assistive technology, sports and recreation activities, legal and civil rights, social security and benefits, and numerous lifestyle options.

3D QSAR in Drug Design Hugo Kubinyi 2006-04-11 Significant progress has been made in the study of three-dimensional quantitative structure-activity relationships (3D QSAR) since the first publication by Richard Cramer in 1988 and the first volume in the series. 3D QSAR in Drug Design. Theory, Methods and Applications, published in 1993. The aim of that early book was to contribute to the understanding and the further application of CoMFA and related approaches and to facilitate the appropriate use of these methods. Since then, hundreds of papers have appeared using the quickly developing techniques of both 3D QSAR and computational sciences to study a broad variety of biological problems. Again the editor(s) felt that the time had come to solicit reviews on published and new viewpoints to document the

state of the art of 3D QSAR in its broadest definition and to provide visions of where new techniques will emerge or new applications may be found. The intention is not only to highlight new ideas but also to show the shortcomings, inaccuracies, and abuses of the methods. We hope this book will enable others to separate trivial from visionary approaches and me-too methodology from innovative techniques. These concerns guided our choice of contributors. To our delight, our call for papers elicited a great many manuscripts.

Glencoe Chemistry: Matter and Change, Student Edition McGraw-Hill Education 2016-06-15

Mechanisms of Catalysis 1991-01-28 The remarkable expansion of information leading to a deeper understanding of enzymes on the molecular level necessitated the development of this volume which not only introduces new topics to The Enzymes series but presents new information on some covered in Volume I and II of this edition.

Reaction In Condensed Phases Henry Eyring 2012-12-02 Physical Chemistry: An Advanced Treatise: Reactions in Condensed Phases, Volume VII, deals with reactions in condensed phases. The purpose of this treatise is to present a comprehensive treatment of physical chemistry for advanced students and investigators in a reasonably small number of volumes. An attempt has been made to include all important topics in physical chemistry together with borderline subjects which are of particular interest and importance. The book begins by discussing the basic principles of reaction rates in solution. This is followed by separate chapters on estimating the rate parameters of elementary reactions; the use of correlation diagrams to interpret organic reactions; perturbation of reaction rates by substituents; and inorganic reactions. Subsequent chapters cover the important field of free radicals, including chain reactions and solvent effects; heterogeneous catalysis; various types of surface reactions; surface annealing; electron reactions; nucleation; and radiation chemistry. The book presents a broad picture of current developments in reaction rates in condensed phases in a form accessible to all students of chemical kinetics. This treatment, by experts in widely different areas, will hopefully meet many student needs and provide a useful overview for all.

Fundamentals of Physics David Halliday 1996-08-09 This popular book incorporates modern approaches to physics. It not only tells readers how physics works, it shows them. Applications have been enhanced to form a bridge between concepts and reasoning.

Demagogue Larry Tye 2020 The definitive biography of the most dangerous demagogue in American history, based on first-ever review of his personal and professional papers, medical and military records, and recently unsealed transcripts of his closed-door Congressional hearings In the long history of American demagogues, from Huey Long to Donald Trump, never has one man caused so much damage in such a short time as Senator Joseph McCarthy. We still use "McCarthyism" to stand for outrageous charges of guilt by association, a weapon of polarizing slander. From 1950 to 1954, McCarthy destroyed many careers and even entire lives, whipping the nation into a frenzy of paranoia, accusation, loyalty oaths, and terror. When the public finally turned on him, he came crashing down, dying of alcoholism in 1957. Only now, through bestselling author Larry Tye's exclusive look at the senator's records, can the full story be told. Demagogue is a masterful portrait of a human being capable of immense evil, yet beguiling charm. McCarthy was a tireless worker and a genuine war hero. His ambitions knew few limits. Neither did his socializing, his drinking, nor his gambling. When he finally made it to the Senate, he flailed around in search of an agenda and angered many with his sharp elbows and lack of integrity. Finally, after three years, he hit upon anti-communism. By recklessly charging treason against everyone from George Marshall to much of the State Department, he became the most influential and

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controversial man in America. His chaotic, meteoric rise is a gripping and terrifying object lesson for us all. Yet his equally sudden fall from fame offers reason for hope that, given the rope, most American demagogues eventually hang themselves.

Immunoematology Eva D. Quinley 1993 The second edition of this respected text provides a well-rounded introduction to immunoematology that includes superior explanations of procedures. Easy to read and user-friendly, the text successfully conveys the complex principles and practices of blood banking. Progressing from basic to complex concepts, coverage more than meets the requirements of the AABB. Actual work experience references provide an accurate look at the field. New in this edition: 3 New Chapters -- Hemapheresis, Regulatory Overview, and Process Control; 2 New Sections -- Quality Assurance/Regulatory Issues, and Serologic Techniques; Two-Color Format; 40 New Illustrations; 8-Page, 4-Color Insert.

Essentials of Computational Chemistry Christopher J. Cramer 2013-04-29 Essentials of Computational Chemistry provides a balanced introduction to this dynamic subject. Suitable for both experimentalists and theorists, a wide range of samples and applications are included drawn from all key areas. The book carefully leads the reader thorough the necessary equations providing information explanations and reasoning where necessary and firmly placing each equation in context.

Biomacromolecules C. Stan Tsai 2007-01-16 This book provides an integrated treatment of the structure and function of nucleic acids, proteins, and glycans, including thorough coverage of relevant computational biochemistry. The text begins with an introduction to the biomacromolecules, followed by discussion of methods of isolation and purification, physiochemical and biochemical properties, and structural characteristics. The next section of the book deals with sequence analysis, analysis of conformation using spectroscopy, chemical synthesis, and computational approaches. The following chapters discuss biomolecular interactions, enzyme action, gene transmission, signal transduction, and biomacromolecular informatics. The author concludes with presenting the latest findings in genomics, proteomics, glycomics, and biomacromolecular evolution. This text is an invaluable resource for research professionals wishing to move into genomics, proteomics, and glycomics research. It is also useful for students in biochemistry, molecular biology, bioengineering, biotechnology, and bioinformatics.

Principles and Practices of Seed Storage O.L. Justice 2013-01-01 The book provides wide range of information on seed storage. In the beginning the biology of seeds and factors which influence seed viability and storage is explained. How the seed storage can be made more effective from the initial selection and dryingof seeds to protective measures, packaging and transportation is explained. All type of illustrations are provided in respect of machinery and facilities commonly used in the treatment and storage of seeds. Among many other, short accounts are given of varietal variation in viability of seeds variation in tolerance of mechanical injury sustained during handling, and cytological changes which take place during storage, including the spontaneous appearance of mutations and occurrence of chromosomal abnormalities. A Well produced and thorough book likely to be valued by all PG, researchers, seed societies botanist and Agriculturists and all those who are interested about seed storage.

Taking Chances Lauren Brooke 2001 Amy's life has drastically changed. She's found herself taking on the huge responsibility of running Heartland, the horse refuge that was her mother's life work. The one constant for Amy has been her friendship with Ty, Heartland's 17-year-old stable hand. But the arrival of a new hand, Ben, throws everything off balance. By the time Amy realizes she's taken Ty for granted,

it could be too late.

Sustainable Green Chemical Processes and their Allied Applications Inamuddin 2020-05-30
Urbanization, industrialization, and unethical agricultural practices have considerably negative effects on the environment, flora, fauna, and the health and safety of humanity. Over the last decade, green chemistry research has focused on discovering and utilizing safer, more environmentally friendly processes to synthesize products like organic compounds, inorganic compounds, medicines, proteins, enzymes, and food supplements. These green processes exist in other interdisciplinary fields of science and technology, like chemistry, physics, biology, and biotechnology. Still the majority of processes in these fields use and generate toxic raw materials, resulting in techniques and byproducts which damage the environment. Green chemistry principles, alternatively, consider preventing waste generation altogether, the atom economy, using less toxic raw materials and solvents, and opting for reducing environmentally damaging byproducts through energy efficiency. Green chemistry is, therefore, the most important field relating to the sustainable development of resources without harmfully impacting the environment. This book provides in-depth research on the use of green chemistry principles for a number of applications.

The Fourth Phase of Water Gerald H. Pollack 2013 Professor Pollack takes us on a fantastic voyage through water, showing us a hidden universe teeming with physical activity that provides answers so simple that any curious person can understand. In conversational prose, Pollack lays a simple foundation for understanding how changes in water's structure underlie most energetic transitions of form and motion on earth.

Help for the Farmer 187?

The Nitro Group in Organic Synthesis Noboru Ono 2003-05-08 The most useful reactions of organonitro compounds in organic synthesis Compounds containing nitro groups are useful intermediates for the synthesis of natural products and other complex organic molecules. The Nitro Group in Organic Synthesis focuses on reactions that proceed under mild conditions, important functional groups that can be synthesized by conversion of nitro groups, and the stereoselectivity of reactions of nitro compounds. These issues are of great importance to practicing researchers in today's pharmaceutical, agrochemical, and fine chemical industries. The Nitro Group in Organic Synthesis also emphasizes environmentally-friendly methods for nitration, the importance of aliphatic nitro compounds, and modern preparation of nitro compounds. Other topics discussed include: * Henry reaction * Asymmetric Michael addition * Alkylation, acylation, halogenation, and related reactions of RNO₂ * Substitution and elimination of NO₂ and RNO₂ The Nitro Group in Organic Synthesis is a useful resource for researchers and students in organic and medicinal chemistry.

Government Reports Announcements & Index 1988-05

Industrial Organic Chemistry Klaus Weissermel 2008-07-11 'Ideal for getting an overview of applied organic chemistry' This bestselling standard, now in its 3rd completely revised English edition, is an excellent source of technological and economic information on the most important precursors and intermediates used in the chemical industry. Right and left columns containing synopsis of the main text and statistical data, and numerous fold-out flow diagrams ensure optimal didactic presentation of complex chemical processes. The translation into eight languages, the four German and three English editions clearly evidence the popularity of this book. '... it is where I look first to get a quick overview of the manufacturing process of a product... Weissermel/Arpe has been serving me for years as an

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indispensable reference work.' (Berichte der Bunsengesellschaft für Physikalische Chemie) 'Whether student or scientist, theorist or practitioner - everybody interested in industrial organic chemistry will appreciate this work.' (farbe + lack) '...it should be ready to hand to every chemist or process engineer involved directly or indirectly with industrial organic chemistry. It should be in the hand of every higher-graduate student, especially if chemical technology is not part of the study, like in many college universities...' (Tenside-Surfactants-Detergents)

More Deadly Than War Kenneth C. Davis 2018-05-15 From bestselling author Kenneth C. Davis comes a fascinating account of the Spanish influenza pandemic 100 years after it first swept the world in 1918. "Davis deftly juggles compelling storytelling, gruesome details, and historical context. *More Deadly Than War* reads like a terrifying dystopian novel—that happens to be true." —Steve Sheinkin, author of *Bomb and Undefeated* A Washington Post Best Children's Book of the Month With 2018 marking the 100th anniversary of the worst disease outbreak in modern history, the story of the Spanish flu is more relevant today than ever. This dramatic narrative, told through the stories and voices of the people caught in the deadly maelstrom, explores how this vast, global epidemic was intertwined with the horrors of World War I—and how it could happen again. Complete with photographs, period documents, modern research, and firsthand reports by medical professionals and survivors, this book provides captivating insight into a catastrophe that transformed America in the early twentieth century. Praise for *More Deadly Than War* A Junior Library Guild Selection! "More Deadly Than War is a riveting story of the great influenza pandemic of 1918, packed with unforgettable examples of the power of a virus gone rogue. Kenneth C. Davis's book serves as an important history—and an important reminder that we could very well face such a threat again." —Deborah Blum, New York Times bestselling author of *The Poisoner's Handbook: Murder and the Birth of Forensic Medicine in Jazz Age New York*. "With eye-popping details, Kenneth C. Davis tracks the deadly flu that shifted the powers in World War I and changed the course of world history. In an age of Ebola and Zika, this vivid account is a cautionary tale that will have you rushing to wash your hands for protection." —Karen Blumenthal, award-winning author of *Steve Jobs: The Man Who Thought Different* * "Davis once again makes history accessible for students from the middle grades through high school." —VOYA, STARRED review

d-Orbitals in the Chemistry of Silicon, Phosphorus and Sulfur H. Kwart 2012-12-06 This book was undertaken for the purpose of bringing together the widely diverse lines of experimental work and thinking which has been expressed but has often been unheard on the title question. It will be clear to the reader that a critical viewpoint has been maintained in assembling the material of this rapidly expanding area of concern to organic chemists. It should be clear, too, that the authors are not purveying a singular viewpoint and do not regard the discussions presented as the ultimate word on the subject. In fact, it should be anticipated that many of the viewpoints presented may have to be altered in the light of new developments. In recognition of this and to show the way an appendix of recent results and interpretation has been included where an alteration in viewpoint on some of the material treated in the text has been necessitated by developments in the most recent literature. This appendix should be regarded as the reader's opportunity to maintain currency in all aspects of this subject if it is kept abreast of the literature. The bibliography, from which most of the material of discussion has been drawn, is organized in a somewhat unusual manner which deserves some explanation here. A reference citation can consist of (as much as) a six space combination of letters and numerals.

Structure and Activity of Enzymes 1992

Ageing and Stabilisation of Paper M. Strlic (ed.) 2005

Hazardous Pollutants in Biological Treatment Systems Ferhan Çeçen 2017-11-15 Hazardous pollutants are a growing concern in treatment engineering. In the past, biological treatment was mainly used for the removal of bulk organic matter and the nutrients nitrogen and phosphorous. However, relatively recently the issue of hazardous pollutants, which are present at very low concentrations in wastewaters and waters but are very harmful to both ecosystems and humans, is becoming increasingly important. Today, treatment of hazardous pollutants in the water environment becomes a challenge as the water quality standards become stricter. *Hazardous Pollutants in Biological Treatment Systems* focuses entirely on hazardous pollutants in biological treatment and gives an elaborate insight into their fate and effects during biological treatment of wastewater and water. Currently, in commercial and industrial products and processes, thousands of chemicals are used that reach water. Many of those chemicals are carcinogens, mutagens, endocrine disruptors and toxicants. Therefore, water containing hazardous pollutants should be treated before discharged to the environment or consumed by humans. This book first addresses the characteristics, occurrence and origin of hazardous organic and inorganic pollutants. Then, it concentrates on the fate and effects of these pollutants in biological wastewater and drinking water treatment units. It also provides details about analysis of hazardous pollutants, experimental methodologies, computational tools used to assist experiments, evaluation of experimental data and examination of microbial ecology by molecular microbiology and genetic tools. *Hazardous Pollutants in Biological Treatment Systems* is an essential resource to the researcher or the practitioner who is already involved with hazardous pollutants and biological processes or intending to do so. The text will also be useful for professionals working in the field of water and wastewater treatment.

Introduction to Nanotechnology Charles P. Poole, Jr. 2003-05-30 This self-confessed introduction provides technical administrators and managers with a broad, practical overview of the subject and gives researchers working in different areas an appreciation of developments in nanotechnology outside their own fields of expertise.

British Reports, Translations and Theses British Library. Document Supply Centre 1985 Issue for Mar. 1981 contains index for Jan.-Mar. 1981 in microfiche form.

Agglutination, Complement, Neutralization, and Inhibition Curtis A. Williams 2014-05-10 *Methods in Immunology and Immunochemistry, Volume IV: Agglutination, Complement, Neutralization, and Inhibition* provides information pertinent to direct and indirect agglutination reactions. This book covers a variety of topics, including complement-fixation procedures, isolation of complement components, hemolytic intermediates, complement-related proteins, and neutralization reactions. Organized into three chapters, this volume begins with an overview of test-tube agglutinations that are preferred for blood grouping with saline agglutinins that require more than a few minutes for agglutination. This text then describes blood group antibodies that agglutinate red blood cells suspended in saline. Other chapters consider the classical pathway of complement utilization. This book discusses as well the complexity of events leading to hemolysis of erythrocytes by complement. The final chapter deals with the ability of antitoxin to neutralize diphtheria toxin and explains the quantitative relationships between antigen and antibody. This book is a valuable resource for immunologists, scientists, and research workers.

Bacterial Vaccines Rene Germanier 2012-12-02 *Bacterial Vaccines* provides information dealing with vaccination of man against bacterial diseases. This book emphasizes the description, composition, production, and control of the vaccines, as well as vaccine benefits and drawbacks. Organized into 14 chapters, this book contains a description of the etiological agent, particularly with respect to its antigenic composition, and also of the pathogenesis of the disease and the immune mechanisms acting

against it. The chapters are separated according to the disease they describe, which include diphtheria, tetanus, pertussis, cholera, typhoid fever, shigellosis, Escherichia coli infections, meningococcal meningitis, pneumococcal infections, Haemophilus influenzae type b infections, Pseudomonas aeruginosa infections, gonorrhoea, tuberculosis, and leprosy. This book will provide the reader with a comprehensive survey of vaccination of man against bacterial diseases. It is intended for those involved in vaccine development, production, and control.

Structural Bioinformatics: Applications in Preclinical Drug Discovery Process C. Gopi Mohan 2019-01-10 This book reviews the advances and challenges of structure-based drug design in the preclinical drug discovery process, addressing various diseases, including malaria, tuberculosis and cancer. Written by internationally recognized researchers, this edited book discusses how the application of the various in-silico techniques, such as molecular docking, virtual screening, pharmacophore modeling, molecular dynamics simulations, and residue interaction networks offers insights into pharmacologically active novel molecular entities. It presents a clear concept of the molecular mechanism of different drug targets and explores methods to help understand drug resistance. In addition, it includes chapters dedicated to natural-product- derived medicines, combinatorial drug discovery, the CryoEM technique for structure-based drug design and big data in drug discovery. The book offers an invaluable resource for graduate and postgraduate students, as well as for researchers in academic and industrial laboratories working in the areas of chemoinformatics, medicinal and pharmaceutical chemistry and pharmacoinformatics.

Food Analysis Laboratory Manual S. Suzanne Nielsen 2010-03-20 This second edition laboratory manual was written to accompany Food Analysis, Fourth Edition, ISBN 978-1-4419-1477-4, by the same author. The 21 laboratory exercises in the manual cover 20 of the 32 chapters in the textbook. Many of the laboratory exercises have multiple sections to cover several methods of analysis for a particular food component of characteristic. Most of the laboratory exercises include the following: introduction, reading assignment, objective, principle of method, chemicals, reagents, precautions and waste disposal, supplies, equipment, procedure, data and calculations, questions, and references. This laboratory manual is ideal for the laboratory portion of undergraduate courses in food analysis.

Cracking the AP Chemistry Exam 2020 The Princeton Review 2019-08-06 Cracking the AP Chemistry Exam 2020, Premium Edition provides students with thorough subject reviews of all relevant topics, including atomic structure, thermodynamics, the periodic table, fundamental laws, organic chemistry, molecular binding, and key equations, laws, and formulas. It also includes helpful tables, charts, and diagrams, and detailed advice on how to write a high-scoring essay. This Premium Edition includes 5 total full-length practice tests (4 in the book and 1 online) for the most practice possible.

Race and the Obama Administration Andra Gillespie 2019-01-14 The election of Barack Obama marked a critical point in American political and social history. Did the historic election of a black president actually change the status of blacks in the United States? Did these changes (or lack thereof) inform blacks' perceptions of the President? This book explores these questions by comparing Obama's promotion of substantive and symbolic initiatives for blacks to efforts by the two previous presidential administrations. By employing a comparative analysis, the reader can judge whether Obama did more or less to promote black interests than his predecessors. Taking a more empirical approach to judging Barack Obama, this book hopes to contribute to current debates about the significance of the first African American presidency. It takes care to make distinctions between Obama's substantive and symbolic accomplishments and to explore the significance of both.

Directed Enzyme Evolution Frances H. Arnold 2008-02-02 Directed evolution comprises two distinct steps that are typically applied in an iterative fashion: (1) generating molecular diversity and (2) finding among the ensemble of mutant sequences those proteins that perform the desired function according to the specified criteria. In many ways, the second step is the most challenging. No matter how cleverly designed or diverse the starting library, without an effective screening strategy the ability to isolate useful clones is severely diminished. The best screens are (1) high throughput, to increase the likelihood that useful clones will be found; (2) sufficiently sensitive (i. e. , good signal to noise) to allow the isolation of lower activity clones early in evolution; (3) sufficiently reproducible to allow one to find small improvements; (4) robust, which means that the signal afforded by active clones is not dependent on difficult-to-control environmental variables; and, most importantly, (5) sensitive to the desired function. Regarding this last point, almost anyone who has attempted a directed evolution experiment has learned firsthand the truth of the dictum "you get what you screen for. " The protocols in Directed Enzyme Evolution describe a series of detailed procedures of proven utility for directed evolution purposes. The volume begins with several selection strategies for enzyme evolution and continues with assay methods that can be used to screen enzyme libraries. Genetic selections offer the advantage that functional proteins can be isolated from very large libraries simply by growing a population of cells under selective conditions.

Molecular Modeling in Drug Design Rebecca Wade 2019-03-26 Since the first attempts at structure-based drug design about four decades ago, molecular modelling techniques for drug design have developed enormously, along with the increasing computational power and structural and biological information of active compounds and potential target molecules. Nowadays, molecular modeling can be considered to be an integral component of the modern drug discovery and development toolbox. Nevertheless, there are still many methodological challenges to be overcome in the application of molecular modeling approaches to drug discovery. The eight original research and five review articles collected in this book provide a snapshot of the state-of-the-art of molecular modeling in drug design, illustrating recent advances and critically discussing important challenges. The topics covered include virtual screening and pharmacophore modelling, chemoinformatic applications of artificial intelligence and machine learning, molecular dynamics simulation and enhanced sampling to investigate contributions of molecular flexibility to drug-receptor interactions, the modeling of drug-receptor solvation, hydrogen bonding and polarization, and drug design against protein-protein interfaces and membrane protein receptors.

The Mueller Report Robert S. Mueller 2019-04-26 This is the full Mueller Report, as released on April 18, 2019, by the U.S. Department of Justice. A reprint of the report exactly as it was issued by the government, it is without analysis or commentary from any other source and with nothing subtracted except for the material redacted by the Department of Justice. The mission of the Mueller investigation was to examine Russian interference in the 2016 Presidential election, consisting of possible links, or "collusion," between the Donald Trump campaign and the Russian government of Vladimir Putin as well as any allegations of obstruction of justice in this regard. It was also intended to detect and prosecute, where warranted, any other crimes that surfaced during the course of the investigation. The report consists of a detailed summary of the various investigations and inquiries that the Special Counsel and colleagues carried out in these areas. The investigation was initiated in the aftermath of the firing of FBI Director James Comey by Donald Trump on May 9, 2017. The FBI, under Director Comey, had already been investigating links between Russia and the Trump campaign. Mueller submitted his report to Attorney General William Barr on March 22, 2019, and the Department of Justice released the redacted report one month later.

Applied Chemistry Oleg Roussak 2012-09-27 This updated edition of Gesser's classic textbook has undergone a full revision and now has the latest material, including new chapters on semiconductors and nanotechnology. It includes a supplementary laboratory section with stepwise experimental protocols.

Problems and Solutions on Thermodynamics and Statistical Mechanics Yung-kuo Lim 1990 Volume 5.

The Hidden Brain Shankar Vedantam 2010-01-19 The hidden brain is the voice in our ear when we make the most important decisions in our lives—but we're never aware of it. The hidden brain decides whom we fall in love with and whom we hate. It tells us to vote for the white candidate and convict the dark-skinned defendant, to hire the thin woman but pay her less than the man doing the same job. It can direct us to safety when disaster strikes and move us to extraordinary acts of altruism. But it can also be manipulated to turn an ordinary person into a suicide terrorist or a group of bystanders into a mob. In a series of compulsively readable narratives, Shankar Vedantam journeys through the latest discoveries in neuroscience, psychology, and behavioral science to uncover the darkest corner of our minds and its decisive impact on the choices we make as individuals and as a society. Filled with fascinating characters, dramatic storytelling, and cutting-edge science, this is an engrossing exploration of the secrets our brains keep from us—and how they are revealed.