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During the 1960s, a group of artists challenged the status quo in Japan through interventionist art. William Mariotti situates the artists in relation to postwar Japan and the international activism of the 1960s.

The specialty of fertility preservation offers patients with cancer, who are rendered infertile by chemo- and radiotherapy, the opportunity to realize their reproductive potential. This gold-standard publication defines the specialty. The full range of techniques and scientific concepts is covered in detail, and the author team includes many of the world's leading experts in the field. The book opens with introductions to fertility preservation in both cancer and non-cancer patients, followed by cancer biology, epidemiology and treatment, and reproductive biology and cryobiology. Subsequent sections cover fertility preservation strategies in males and females, including medical/surgical procedures, ART, cryopreservation and transplantation of both ovarian tissue and the whole ovary, and in-vitro follicle growth and maturation. Concluding chapters address future technologies, as well as ethical, legal and religious issues. Richly illustrated throughout, this is a key resource for all clinicians specializing in reproductive medicine, gynecology, oncology, hematology, endocrinology and infertility.

Details the latest advances in bioanalytical applications using enzymes--techniques that are becoming increasingly important in analysis, synthesis, manufacturing and medical diagnosis. Consists of seven articles which cover: enzyme labeled antibodies in bioassays, DNA restriction enzymes and RFLPs in medicine, enzyme-labeled probes for nucleic acid hybridization, unique methodologies of immobilized proteins in bioanalytical systems, dry reagent chemistry fundamentals, the theory and applications of enzyme electrode biosensors, and advances in enzymatically coupled field effect transistors.

with contributions by numerous experts

Nucleic acids are the fundamental building blocks of DNA and RNA and are found in virtually every living cell. Molecular biology is a branch of science that studies the physicochemical properties of molecules in a cell, including nucleic acids, proteins, and enzymes. Increased understanding of nucleic acids and their role in molecular biology will further many of the biological sciences including genetics, biochemistry, and cell biology. Progress in Nucleic Acid Research and Molecular Biology is intended to bring to light the most recent advances in these overlapping disciplines with a timely compilation of reviews comprising each volume. * Provides a forum for discussion of new discoveries, approaches and ideas in molecular biology * Includes contributions from the leaders in the field * Has abundant references

This book includes the fundamental science and applications of carbon-based materials, in particular fused polycyclic hydrocarbon, fullerene, diamond, carbides, graphite and graphene etc. During the past decade, these carbon-based materials have attracted much interest from many scientists and engineers because of their exciting physical properties and potential application toward electronic and energy devices. In this book, the fundamental theory referring to these materials, their syntheses and characterizations, the physical properties (physics), and the applications are fully described, which will contribute to an advancement of not only basic science in this research field but also technology using these materials. The book's targets are researchers and engineers in the field and graduate school students who specialize in physics, chemistry, and materials science. Thus, this book addresses the physics and chemistry of the principal materials in the twenty-first century.

First multi-year cumulation covers six years: 1965-70.

This continuing authoritative series deals with the chemistry, materials science, physics and technology of the rare earth elements in an integrated manner. Each chapter is a comprehensive, up-to-date, critical review of a particular segment of the field. The work offers the researcher and graduate student a complete and thorough coverage of this fascinating field. Authoritative Comprehensive Up-to-date Critical Take your knowledge of fishes to the next level *Fishes of the World, Fifth Edition* is the only modern, phylogenetically based classification of the world's fishes. The updated text offers new phylogenetic diagrams that clarify the relationships among fish groups, as well as cutting-edge global knowledge that brings this classic reference up to date. With this resource, you can classify orders, families, and genera of fishes, understand the connections among fish groups, organize fishes in their evolutionary context, and imagine new areas of research. To further assist your work, this text provides representative drawings, many of them new, for most families of fishes, allowing you to make visual connections to the information as you read. It also contains many references to the classical as well as the most up-to-date literature on fish relationships, based on both morphology and molecular biology. The study of fishes is one that certainly requires dedication—and access to reliable, accurate information. With more than 30,000 known species of sharks, rays, and bony fishes, both lobe-finned and ray-finned, you will need to master your area of study with the assistance of the best reference materials available. This text will help you bring your knowledge of fishes to the next level. Explore the anatomical characteristics, distribution, common and scientific names, and phylogenetic relationships of fishes Access biological and anatomical information on more than 515 families of living fishes Better appreciate the complexities and controversies behind the modern view of fish relationships Refer to an extensive bibliography, which points you in the direction of additional, valuable, and up-to-date information, much of it published within the last few years *Fishes of the World, Fifth Edition* is an invaluable resource for professional ichthyologists, aquatic ecologists, marine biologists, fish breeders, aquaculturists, and conservationists.

Every time a cell divides, a copy of its genomic DNA has to be faithfully copied to generate new genomic DNA for the daughter cells. The process of DNA replication needs to be precisely regulated to ensure that replication of the genome is complete and accurate, but that re-replication does not occur. Errors in DNA replication can lead to genome instability and cancer. The process of replication initiation is of paramount importance, because once the cell is committed to replicate DNA, it must finish this process. A great deal of progress has been made in understanding how DNA replication is initiated in eukaryotic cells in the past ten years, but this is the first one-source book on these findings. *The Initiation of DNA Replication in Eukaryotes* will focus on how DNA replication is initiated in eukaryotic cells. While the concept of replication initiation is simple, its elaborate regulation and integration with other cell processes results in a high level of complexity. This book will cover how the position of replication initiation is chosen, how replication initiation is integrated with the phases of the cell cycle, and how it is regulated in the case of damage to DNA. It is the cellular protein machinery that enables replication initiation to be activated and regulated. We now have an in-depth understanding of how cellular proteins work together to start DNA replication, and this new resource will reveal a mechanistic description of DNA replication initiation as well.

The closed-cage carbon molecules known as fullerenes provide an entirely new branch of chemistry, materials science, and physics. Fullerene research is now engaging the frenetic attention of thousands of scientists. Initially, the chemistry was relatively slow to develop due to the low availability of material, and the need for state-of-the-art instrumentation for product analysis. This research area is now very definitely up-and-running, and will soon become the main focus of attention in the fullerene field. The number of published papers already runs into hundreds, and the main features of fullerene reactivity have been established. This book describes all of the known types of

reactions as well as the means of production, the purification, and the properties of fullerenes. Contents: Introduction and Nomenclature Fullerene Production (L D Lamb) Properties of Fullerenes (R Taylor) Hydrogenated Fullerenes (P A Cahill) Chemical Transformation of C₆₀ into Water-Soluble Polyhydroxylated Fullerene Derivatives (L Y Chiang) Fluorination (J H Holloway & E G Hope) Iodination, Bromination and Chlorination (R Taylor) Aryl Derivatives of Fullerenes (R Taylor) Fullerenes, Methanofullerenes and Oxa-, Aza-, and Sila-Homologues (M Prato & F Wudl) Cycloadditions to C₆₀ (M S Meier) Formation of Anions and Electrophilic Addition (R Taylor) Nucleophilic Addition and Substitution (R Taylor) Radical Additions to Fullerenes: Fullerenyl Radicals (R Taylor) Reactions of Fullerenes with Inorganic and Organometallic Compounds (A L Balch) Fullerene-Containing Polymers Readership: Chemists, materials scientists and physicists. keywords: "This is a nice book, indeed — valuable contents, a pleasant form." Fullerene Science & Technology

Between 1944 and 1949 the United States Navy held a war crimes tribunal that tried Japanese nationals and members of Guam's indigenous Chamorro population who had worked for Japan's military government. In *Sacred Men* Keith L. Camacho traces the tribunal's legacy and its role in shaping contemporary domestic and international laws regarding combatants, jurisdiction, and property. Drawing on Giorgio Agamben's notions of bare life and Chamorro concepts of retribution, Camacho demonstrates how the U.S. tribunal used and justified the imprisonment, torture, murder, and exiling of accused Japanese and Chamorro war criminals in order to institute a new American political order. This U.S. disciplinary logic in Guam, Camacho argues, continues to directly inform the ideology used to justify the Guantánamo Bay detention center, the torture and enhanced interrogation of enemy combatants, and the American carceral state.

Robert Rauschenberg on tour in 1964 and the early globalization of the art world.

This book is a timely and scholarly update in the area of stem cells and regenerative medicine. Stem cells has been in news for quite sometime now for its contribution in treating some of the debilitating diseases which have no medicine or drugs to cure, till date, like Cancer, leukemia, lymphoma or various blood or autoimmune disorders, advanced kidney cancer, Parkinson's disease, amyotrophic lateral sclerosis, spinal cord injury, burns, heart disease, diabetes, and arthritis etc.

Knowledge on endohedral metallofullerenes (EMFs) has increased dramatically during the last decade. Numerous research findings have been reported, making it an opportune time to provide a systematic update on EMFs. *Endohedral Metallofullerenes: Basics and Applications* presents the most comprehensive review on all aspects of EMFs including their generation, extraction and isolation, structural issues, theories, intrinsic properties, chemical behaviors, and potential applications. In this book, the editors have collected an impressive amount of information regarding this family of a truly sui generis form of matter. The book's authors were chosen for their specific expertise in EMF research and have been gathered from top research groups from around the world. Graduate students, newcomers to the field, and experienced researchers alike will find this book a highly useful reference on the topic.

Stem cell science has the potential to impact human reproductive medicine significantly – cutting edge technologies allow the production and regeneration of viable gametes from human stem cells offering potential to preciously infertile patients. Written by leading experts in the field *Stem Cells in Reproductive Medicine* brings together chapters on the genetics and epigenetics of both the male and female gametes as well as advice on the production and regeneration of gene cells in men and women, trophoblasts

and endometrium from human embryonic and adult stem cells. Although focussing mainly on the practical elements of the use of stem cells in reproductive medicine, the book also contains a section on new developments in stem cell research. The book is essential reading for reproductive medicine clinicians, gynecologists and embryologists who want to keep abreast of practical developments in this rapidly developing field.

Practical Urological Ultrasound has become a primary reference for urologists and sonographers performing urologic ultrasound examinations. This third edition is comprised of twenty-two chapters including newly added chapters on technical advancements in ultrasound, male reproduction ultrasound, point-of-care ultrasound, quality assessment and implementation for urologic practices, and sonographers in the urologic practice. All chapters are fully updated and expanded, covering additional literature on further elucidation of Doppler ultrasound principles, sonoelastography, quantitative evaluation of the clinical causes of ED, evaluations of the pelvic mesh implant and its complications, developments in multiparametric ultrasound of the prostate, and updated protocols in POCUS. Written by experts in the field of urology, Practical Urological Ultrasound, Third Edition continues to serve as an important resource for the novice and a comprehensive reference for the advanced sonographer.

Together with Consulting Editor Dr. Samir Taneja, Dr. Badrinath Konety has put together a comprehensive issue that addresses the latest clinical updates in Male Infertility. Expert authors have contributed clinical review articles on the following topics: Cutting edge evaluation in male infertility; Optimal endocrine evaluation and treatment; Sperm extraction in obstructive azoospermia: What's next; FNA vs. microTESE; ROSI (round spermatid injection); Reproductive Urology in the context of an IVF practice; Care delivery in male infertility; Qualitative research in male infertility; Male Infertility & Somatic Health; DNA fragmentation: Does testicular sperm make sense; CRISPR & Genetics of Male Infertility after whole genome sequencing; Transgenerational epigenetics: A window into paternal health influences on offspring; Spermatogonial Stem Cell Culture in oncofertility; Personalized medicine for the infertile male; and Male Infertility & The future of IVF. Readers will come away with the clinical information they need to improve outcomes in patients with infertility.

Written by research experts, this volume of Progress in Molecular Biology and Translational Science focuses on current science surrounding the mechanisms of DNA repair. Contributions from leading authorities informs and updates on all the latest developments in the field

This textbook comprehensively introduces students and researchers to the application of continuous symmetries and their Lie algebras to ordinary and partial differential equations. Covering all the modern techniques in detail, it relates applications to cutting-edge research fields such as Yang-Mills theory and string theory. Aimed at readers in applied mathematics and physics rather than pure mathematics, the material is ideally suited to students and researchers whose main interest lies in finding solutions to differential equations and invariants of maps. A large number of worked examples and challenging exercises help readers to work independently of teachers, and by including SymbolicC++

implementations of the techniques in each chapter, the book takes full advantage of the advancements in algebraic computation. Twelve new sections have been added in this edition, including: Haar measure, Sato's theory and sigma functions, universal algebra, anti-self dual Yang-Mills equation, and discrete Painlevé equations.

Principles of Cloning is the first comprehensive book on animal cloning since the creation of Dolly. The contributing authors are the principal investigators on each of the animal species cloned to date, and are expertly qualified to present the state-of-the-art information in their respective areas. Editors Cibelli, Lanza and West garnered worldwide spotlight late in 2001 when their company, Advanced Cell Technology, announced the successful engineering of the world's first cloned human embryo. The trio was featured in the US News & World Report December 2001 cover story, "The First Human Clone." The book presents the basic biological mechanisms of how cloning works and progresses to discuss current and potential applications in basic biology, agriculture, biotechnology, and medicine. Key Features * First and most comprehensive book on animal cloning * Chapters written by the world's expert in each area * From the early experiments in amphibia to the latest one in mammals, everything is included in this book and told by the researcher that did it and how they did it * Basic biological mechanisms on how cloning works and all their current and potential applications * Cloning applications on basic biology, agriculture, biotechnology and medicine are included * Editors are the pioneers in the field

This work offers a fascinating insight into a crucial genetic process. Recombination is, quite simply, one of the most important topics in contemporary biology. This book is a totally comprehensive treatment of the subject, summarizing all existing views on the topic and at the same time putting them into context. It provides in-depth and up-to-date analysis of the chapter topics, and has been written by international experts in the field.

In April 1859, at age fifty, Shinohara Ch?emon left his old life behind. Ch?emon, a well-off farmer in his home village, departed for the new port city of Yokohama, where he remained for the next fourteen years. There, as a merchant trading with foreigners in the aftermath of Japan's 1853 "opening" to the West, he witnessed the collapse of the Tokugawa shogunate, the civil war that followed, and the Meiji Restoration's reforms. The Merchant's Tale looks through Ch?emon's eyes at the upheavals of this period. In a narrative history rich in colorful detail, Simon Partner uses the story of an ordinary merchant farmer and its Yokohama setting as a vantage point onto sweeping social transformation and its unwitting agents. Ch?emon, like most newcomers to Yokohama, came in search of economic opportunity. His story sheds light on vital issues in Japan's modern history, including the legacies of the Meiji Restoration; the East Asian treaty port system; and the importance of everyday life—food, clothing, medicine, and hygiene—for national identity. Centered on an individual, The Merchant's Tale is also the story of a place. Created under pressure from aggressive

foreign powers, Yokohama was the scene of gunboat diplomacy, a connection to global markets, the birthplace of new lifestyles, and the beachhead of Japan's modernization. Partner's history of a vibrant meeting place humanizes the story of Japan's revolutionary 1860s and their profound consequences for Japanese society and culture.

Segregation is a pervasive phenomenon whereby a flowing granular mass consisting of particles with diverse physical properties becomes spatially inhomogeneous. In the industrial sector that deals with the handling and processing of bulk solids, this non-uniformity is highly undesirable since blend homogeneity is generally a stringent requirement of most products. In the arena of geophysical flows, segregation can enhance the destructive capabilities of natural events such as avalanches and landslides. During the last 15 years, these issues have provided motivation and fostered collaborations between the communities of mathematicians, engineers, industrial researchers, and physicists to develop predictive models of segregation by integrating the perspectives and approaches of each. The collection of unique papers brings to light many of the perplexing scientific and technical issues in our current understanding of this complex phenomenon. It addresses advances in experiment, computational modeling and theory. This volume is one of the very few books devoted entirely to problems of segregation of particulate solids.

It is now some 15 years since atomic clusters were first produced and investigated in laboratories. Since then, knowledge concerning clusters has enjoyed rapid and sustained growth, and cluster research has become a new branch of science. Contains 97 papers which provide a valuable overview of the latest technical innovations in this rapidly expanding field. Areas of development which receive particular attention include the emergence of power switching transistors, the application of microprocessors to regulation and control of static converters and electrical drives, the use of more sophisticated control strategies and the utilization of power electronics in new application fields.

There have been many books published on scanning tunneling microscopy (STM), atomic force microscopy (AFM) and related subjects since Dr. Cerd Binnig and Dr. Heinrich Rohrer invented STM in 1982 and AFM in 1986 at IBM Research Center in Zurich, Switzerland. These two techniques, STM and AFM, now form the core of what has come to be called the 'scanning probe microscopy (SPM)' family. SPM is not just the most powerful microscope for scientists to image atoms on surfaces, but is also becoming an indispensable tool for manipulating atoms and molecules to construct man-made materials and devices. Its impact has been felt in various fields, from surface physics and chemistry to nano-mechanics, nano-electronics and medical science. Its influence will surely extend further as the years go by, beyond the reach of our present imagination, and new research applications will continue to emerge. This book, therefore, is not intended to be a comprehensive review or textbook on SPM. Its aim is to cover only a selected part of the active research fields of SPM and related topics in which I have been directly involved over the years. These include the basic principles of STM and AFM, and their applications to fullerene film growth, SiC surface reconstructions, MBE (molecular beam epitaxy) growth of CaAs, atomic scale manipulation of Si surfaces and mesoscopic work function.

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