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Nutrient Timing for Peak Performance
Hydrogen Storage Materials
Atlas of Human Chromosome
Heteromorphisms
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The Routledge Companion to Islamic Philosophy
CRPA. Interpreting Averroes
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Aristotle and the Arabic Tradition
Designing and Conducting Gender, Sex, and Health Research
Chemical and Functional Properties of Food Saccharides
Human Chromosome Variation: Heteromorphism and Polymorphism
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The Dynamics of Transculturality
Name Reactions and Reagents in Organic Synthesis
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A Sense of Place
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Organic Reaction Mechanism
The Culture of the Copy
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Advances in Tissue Banking
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Advanced Dietary Fibre Technology
Conceptualizing Cultural Hybridization
The Transformative Power of the Copy
Plant Biochemistry

Nutrient Timing for Peak Performance

Hydrogen Storage Materials

Human Chromosome Variation: Heteromorphism and Polymorphism was formerly printed under the title "Atlas of Human Chromosome Heteromorphism". The Atlas has become a standard reference book in most cytogenetic laboratories and is cited as a significant reference in ISCN 2009. This revised version has updated and retained the most useful pictorial sections of the first edition, including the comprehensive review of normal and "not-so-normal" variations of the human karyotype with summaries and extensive reference lists organized by chromosome number. This updated edition features concise background information on chromosome methods and applications, essential information on heteromorphism frequencies in normal and clinical populations as well as new listing and discussions of euchromatic, subtelomeric and FISH variants. The addition of two new sections make this an even more valuable reference than before. A section on common and rare fragile sites includes a short historical discussion, definitions and an extensive table of officially recognized sites that includes the HUGO name, chromosomal location, methods of induction, genes and references to the most recent molecular characterization. A new section on array CGH discusses the clinical challenge of interpreting copy number variations (CNVs) revealed by this newest technology, gives examples of various levels of interpretation and lists the several most common websites used in this interpretation.

Atlas of Human Chromosome Heteromorphisms

This fourth volume in the Chemical and Functional Properties of Food Components series focuses on saccharides as food constituents. Written by an international group of experts, it provides an up-to-date review of a wide spectrum of issues, focusing on the current research and literature on the properties of compounds, their mechanisms of action, a

Food Polysaccharides and Their Applications

The Routledge Companion to Islamic Philosophy

Explains how nutrient timing can affect performance, describes how athletes can manipulate food intake to maximize the results of their training, and includes a nutrient guide applicable to any athlete with any performance goal.

CRPA.

Confucius called them the “king of fragrant plants,” and John Ruskin condemned them as “prurient apparitions.” Across the centuries, orchids have captivated us with their elaborate exoticism, their powerful perfumes, and their sublime seductiveness. But the disquieting beauty of orchids is

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an unplanned marvel of evolution, and the story of orchids is as captivating as any novel. As acclaimed writer Michael Pollan and National Geographic photographer Christian Ziegler spin tales of orchid conquest in *Deceptive Beauties: The World of Wild Orchids*, we learn how these flowers can survive and thrive in the harshest of environments, from tropical cloud forests to the Arctic, from semi-deserts to rocky mountainsides; how their shapes, colors, and scents are, as Darwin put it, “beautiful contrivances” meant to dupe pollinating male insects in the strangest ways. What other flowers, after all, can mimic the pheromones and even appearance of female insects, so much so that some male bees prefer sex with the orchids over sex with their own kind? And insects aren’t the only ones to fall for the orchids’ charms. Since the “orchidelirium” of the Victorian era, humans have braved the wilds to search them out and devoted copious amounts of time and money propagating and hybridizing, nurturing and simply gazing at them. This astonishing book features over 150 unprecedented color photographs taken by Christian Ziegler himself as he trekked through wilderness on five continents to capture the diversity and magnificence of orchids in their natural habitats. His intimate and astonishing images allow us to appreciate up close nature’s most intoxicating and deceptive beauties.

Interpreting Averroes

At present, human society is facing a health care crisis that is affecting patients worldwide. In the

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United States, it is generally believed that the major problem is lack of affordable access to health care (i.e. health insurance). This book takes an unprecedented approach to address this issue by proposing that the major problem is not lack of affordable access to health care per se, but lack of access to better, safer, and more affordable medicines. The latter problem is present not only in the United States and the developing world but also in countries with socialized health care systems, such as Europe and the rest of the industrialized world. This book provides a comparative analysis of the health care systems throughout the world and also examines the biotechnology and pharmaceutical industries. Examines the health care structure of the United States, Europe, and the third world, both separately and comparatively Offers primary source insight through in-depth interviews with pharmaceutical and health care industry leaders from around the world Carefully explains, in clear terms, the intricacies of the health care and pharmaceutical system and how these intricacies have led to the current crisis Offers concrete, comprehensive solutions to the health care crisis

Equine Genomics

This series has now established itself as the leading publication on the multi-disciplinary subject of tissue banking. The high quality of the contributors and the broad coverage of the subject have continued in Volume 4. The material given in this volume is not presented anywhere else as systematically or as

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authoritatively. The essential feature in establishing confidence in the quality and safety of allografts is the manufacturing quality system utilised. This volume describes the most recent approach to good manufacturing control. Throughout the world, the old cottage approach to tissue banking is being abandoned, mainly due to the insistence by regulatory authorities that the procedures should be standardised and rigorous infection control applied. The experience in a number of countries is described in this volume, giving the reader quick access to developments in Argentina, Finland, Indonesia, Scotland and France. These represent a geographical and cultural spread of the developments. A balance needs to be struck between the use of allografts and of bone substitutes, depending on the clinical condition and the availability of grafts in a particular situation. The subject areas -- such as mandibular reconstruction, spinal surgery, surgery and reconstruction of bone tumours and acetabular revision -- covered in this volume demonstrate the universality of this technique. The use of allografts of the repair of knee ligaments has been and remains a controversial subject. The contributions on this subject will surely be an important and positive addition to this debate.

Mimesis

Pagans and Philosophers explores how writers—philosophers and theologians, but also poets such as Dante, Chaucer, and Langland, and travelers such as Las Casas and Ricci—tackled the Problem of

Paganism. Augustine and Boethius set its terms, while Peter Abelard and John of Salisbury were important early advocates of pagan wisdom and virtue. University theologians such as Aquinas, Scotus, Ockham, and Bradwardine, and later thinkers such as Ficino, Valla, More, Bayle, and Leibniz, explored the difficulty in depth. Meanwhile, Albert the Great inspired Boethius of Dacia and others to create a relativist conception of scientific knowledge that allowed Christian teachers to remain faithful Aristotelians. At the same time, early anthropologists such as John of Piano Carpini, John Mandeville, and Montaigne developed other sorts of relativism in response to the issue.

The World's Health Care Crisis

Palliative care provides comprehensive support for severely affected patients with any life-limiting or life-threatening diagnosis. To do this effectively, it requires a disease-specific approach as the patients' needs and clinical context will vary depending on the underlying diagnosis. Experts in the field of palliative care and oncology describe in detail the needs of patients with advanced cancer in comparison to those with non-cancer disease and also identify the requirements of patients with different cancer entities. Basic principles of symptom control are explained, with careful attention to therapy for pain associated with either the cancer or its treatment and to symptom-guided antineoplastic therapy. Complex therapeutic strategies for palliative cancer patients are highlighted that involve both cancer- and

symptom-directed options and address a range of therapeutic aims. Issues relating to drug use in palliative cancer care are fully explored, and a separate section is devoted to care in the final phase. A range of organizational and policy issues are also discussed, and the book concludes by considering likely future developments in palliative care for cancer patients. Palliative Care in Oncology will be of particular interest to palliative care physicians who are interested in broadening the scope of their disease-specific knowledge, as well as to oncologists who wish to learn more about modern palliative care concepts relevant to their day-to-day work with cancer patients.

Aristotle and the Arabic Tradition

"A fundamental historical account of the much-cited but little-studied concept of mimesis, and an essential starting point for all future discussions of this crucial critical concept."—Hayden White

Designing and Conducting Gender, Sex, and Health Research

Within the context of globalization, cultural transformations are increasingly analyzed as hybridization processes. Hybridity itself, however, is often treated as a specifically post-colonial phenomenon. The contributors in this volume assume the historicity of transcultural flows and entanglements; they consider the resulting transformative powers to be a basic feature of

cultural change. By juxtaposing different notions of hybridization and specific methodologies, as they appear in the various disciplines, this volume's design is transdisciplinary. Each author presents a disciplinary concept of hybridization and shows how it operates in specific case studies. The aim is to generate a transdisciplinary perception of hybridity that paves the way for a wider application of this crucial concept

Chemical and Functional Properties of Food Saccharides

Materials Science Forum Vol. 31

Human Chromosome Variation: Heteromorphism and Polymorphism

This volume offers a fresh perspective on the copy and the practice of copying, two topics that, while the focus of much academic discussion in recent decades, have been underrepresented in the discourse on transculturality. Here, experts from a wide range of academic disciplines present their views on the copy from a transcultural perspective, seeking not to define the copy uniformly, but to reveal its dynamic and transformative power. The copy and the practice of copying are thus presented as constituents of transculturality via thought-provoking contributions on topics spanning time periods from antiquity to the present, and regions from Asia to Europe. In so doing, these contributions aim to create the basis for a novel, interdisciplinary discourse on the copy and its

transcultural impact throughout history.

Cardiac Ultrasound

Comprehensive in scope, *Food Polysaccharides and Their Applications*, Second Edition explains the production aspects and the chemical and physical properties of the main classes of polysaccharides consumed as food, highlighting their nutritional value and their technological characteristics. Chapters in this new edition detail the source, biosynthesis, molecular structures, and physical properties of polysaccharides. They also explore production and uses in food formulations; the effects of cooking and interactions with proteins, lipids, sugars, and metal ions; analytical methods, including identification and quantitative determination; and nutritional and ecological considerations with emphasis on genetic engineering of food crops. The editors carefully balance coverage of fundamental aspects and practical implications for the food industry. What's New in the Second Edition: Explains the preparation of new starch esters and improved techniques for the production of acid-converted and oxidized starches Details new information on the natural functions of cell wall polysaccharides of seeds in relation to their molecular structures, biosynthesis and enzymatic hydrolysis Presents additional references that include those relating to IR and NMR spectrometric methods of analysis

Structure—Property Relationships in Polymers

This volume of essays by scholars in ancient Greek, medieval, and Arabic philosophy examines the full range of Aristotle's influence upon the Arabic tradition. It explores central themes from Aristotle's corpus, including logic, rhetoric and poetics, physics and meteorology, psychology, metaphysics, ethics and politics, and examines how these themes are investigated and developed by Arabic philosophers including al-Kind, al-Frb, Avicenna, al-Ghazl, Ibn Bija and Averroes. The volume also includes essays which explicitly focus upon the historical reception of Aristotle, from the time of the Greek and Syriac transmission of his texts into the Islamic world to the period of their integration and assimilation into Arabic philosophy. This rich and wide-ranging collection will appeal to all those who are interested in the themes, development and context of Aristotle's enduring legacy within the Arabic tradition.

Letters to a Young Scientist

Food Carbohydrates

Analysis of the equine genome began just over a decade ago, culminating in the recent complete sequencing of the horse genome. The availability of the equine whole genome sequence represents the successful completion of an important era of equine genome analysis, and the beginning of a new era where the sequence information will catalyze the development of new tools and resources that will permit study of a range of traits that are economically

important and are significant to equine health and welfare. Equine Genomics provides a timely comprehensive overview of equine genomic research. Chapters detail key accomplishments and the current state of research, as well as looking forward to possible applications of genomic technologies to horse breeding, health, and welfare. Equine Genomics delivers a global overview of the topic and is seamlessly edited by a leading equine genomics researcher. Equine Genomics is an indispensable source of information for anyone with an interest in this increasingly important field of study, including equine genomic researchers, clinicians, animal science professionals and equine field veterinarians.

Managing New Product Innovations

A brilliant study of Aristotle as biologist The philosophical classics of Aristotle loom large over the history of Western thought, but the subject he most loved was biology. He wrote vast volumes about animals. He described them, classified them, told us where and how they live and how they develop in the womb or in the egg. He founded a science. It can even be said that he founded science itself. In The Lagoon, acclaimed biologist Armand Marie Leroi recovers Aristotle's science. He revisits Aristotle's writings and the places where he worked. He goes to the eastern Aegean island of Lesbos to see the creatures that Aristotle saw, where he saw them. He explores Aristotle's observations, his deep ideas, his inspired guesses—and the things he got wildly wrong. He shows how Aristotle's science is deeply

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intertwined with his philosophical system and reveals that he was not only the first biologist, but also one of the greatest. The Lagoon is both a travelogue and a study of the origins of science. And it shows how a philosopher who lived almost two millennia ago still has so much to teach us today. From the Hardcover edition.

Deceptive Beauties

This Second Edition is the premier name resource in the field. It provides a handy resource for navigating the web of named reactions and reagents. Reactions and reagents are listed alphabetically, followed by relevant mechanisms, experimental data (including yields where available), and references to the primary literature. The text also includes three indices based on reagents and reactions, starting materials, and desired products. Organic chemistry professors, graduate students, and undergraduates, as well as chemists working in industrial, government, and other laboratories, will all find this book to be an invaluable reference.

The Lagoon

This new edition now titled “Human Chromosome Variation: Heteromorphism, Polymorphism and Pathogenesis” provides the reader with an up-to-date overview of microarrays, fragile sites, copy number variations and whole genome sequencing. Greatly expanding the discussion of microarray analysis in the previous edition of the book, are new chapters on

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microarray and genomic analysis, plus comprehensive tables on the subtle microdeletions and microduplications that are found on each chromosome, including 235 recurring copy number variants that are associated with well-established or emerging chromosomal syndromes. The current edition features concise information on cytogenetic methods and applications, extending these discussions to DNA analysis and genome sequencing. Sections on euchromatin, heterochromatin, FISH pattern, fragile site, copy number, and DNA sequence variation are integrated with actual clinical examples from cytogenetic laboratories and from clinical practice. The principles that allow for the distinction between benign chromosome / DNA variation and pathogenic heteromorphisms / polymorphisms are discussed and include references to the latest organizational guidelines and genomic or population databases. The two previous incarnations of this book: the 'Atlas of Human Chromosome Heteromorphism', and 'Human Chromosome Variation: Heteromorphism and Polymorphism' have been standard reference works in most cytogenetic laboratories, used by laboratory directors and clinicians all around the world. While widely used sections from the previous edition on cytogenetic technologies and heteromorphisms are retained intact the present volume adds extensive material on copy number variations (polymorphisms detected by microarray analysis), fragile sites in disease and cancer, and practical views on interpreting emerging technologies, including whole exome sequencing. This book should be of interest to clinicians, technicians and students who are or will be exposed to DNA

and/or chromosome analysis and the data derived from these continuously developing techniques. This fully updated book volume will bring the reader up to speed on the latest technologies, their applications, benefits and drawbacks and as such, is a must read for anyone with an interest in DNA and chromosome analysis and the distinction between benign variation and pathogenic mistakes.

Foundations of Science

Hydrocolloids are among the most widely used ingredients in the food industry. They function as thickening and gelling agents, texturizers, stabilisers and emulsifiers and in addition have application in areas such as edible coatings and flavour release. Products reformulated for fat reduction are particularly dependent on hydrocolloids for satisfactory sensory quality. They now also find increasing applications in the health area as dietary fibre of low calorific value. The first edition of Handbook of Hydrocolloids provided professionals in the food industry with relevant practical information about the range of hydrocolloid ingredients readily and at the same time authoritatively. It was exceptionally well received and has subsequently been used as the substantive reference on these food ingredients. Extensively revised and expanded and containing eight new chapters, this major new edition strengthens that reputation. Edited by two leading international authorities in the field, the second edition reviews over twenty-five hydrocolloids, covering structure and properties, processing,

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functionality, applications and regulatory status. Since there is now greater emphasis on the protein hydrocolloids, new chapters on vegetable proteins and egg protein have been added. Coverage of microbial polysaccharides has also been increased and the developing role of the exudate gums recognised, with a new chapter on Gum Ghatti. Protein-polysaccharide complexes are finding increased application in food products and a new chapter on this topic as been added. Two additional chapters reviewing the role of hydrocolloids in emulsification and their role as dietary fibre and subsequent health benefits are also included. The second edition of Handbook of hydrocolloids is an essential reference for post-graduate students, research scientists and food manufacturers. Extensively revised and expanded second edition edited by two leading international authorities Provides an introduction to food hydrocolliods considering regulatory aspects and thickening characteristics Comprehensively examines the manufacture, structure, function and applications of over twenty five hydrocolloids

The Oxford Handbook of Islamic Theology

Reprint of the original, first published in 1919.

Plaster Casts

Plant Biochemistry provides students and researchers in plant sciences with a concise general account of

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plant biochemistry. The edited format allows recognized experts in plant biochemistry to contribute chapters on their special topics. Up-to-date surveys are divided into four sections: the cell, primary metabolism, special metabolism, and the plant and the environment. There is a strong emphasis on plant metabolism as well as enzymological, methodological, molecular, biological, functional, and regulatory aspects of plant biochemistry. Illustrations of metabolic pathways are used extensively, and further reading lists are also included. The coverage of the subject is divided into four sections

The plant cell-describing both molecular components and function
Primary metabolism-including the pathways of carbohydrate, lipid, nitrogen, nucleic acid and protein metabolism as well as gene regulation
Special metabolism-chapters on phenolics, isoprenoids and secondary nitrogen compounds
The plant and the environment-discussions of pathology, ecology and biotechnology at the molecular level

The Dynamics of Transculturality

To learn more about Rowman & Littlefield titles please visit us at www.rowmanlittlefield.com.

Name Reactions and Reagents in Organic Synthesis

Engages with all aspects of Averroes' philosophy, from his thinking on Aristotle to his influence on Islamic law.

Starch

Dietary fibre technology is a sophisticated component of the food industry. This highly practical book presents the state-of-the-art and explains how the background science translates into commercial reality. An international team of experts has been assembled to offer both a global perspective and the nuts and bolts information relevant to those working in the commercial world. Coverage includes specific dietary fibre components (with overviews of chemistry, analysis and regulatory aspects of all key dietary fibres); measurement of dietary fibre and dietary fibre components (in-vitro and in-vivo); general aspects (eg chemical and physical nature; rheology and functionality; nutrition and health; and technological) and current hot topics. Ideal as an up-to-date overview of the field for food technologists; nutritionists and quality assurance and production managers.

Human Chromosome Variation: Heteromorphism, Polymorphism and Pathogenesis

Within the field of Islamic Studies, scientific research of Muslim theology is a comparatively young discipline. Much progress has been achieved over the past decades with respect both to discoveries of new materials and to scholarly approaches to the field. The Oxford Handbook of Islamic Theology provides a comprehensive and authoritative survey of the current state of the field. It provides a variegated

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picture of the state of the art and at the same time suggests new directions for future research. Part One covers the various strands of Islamic theology during the formative and early middle periods, rational as well as scripturalist. To demonstrate the continuous interaction among the various theological strands and its repercussions (during the formative and early middle period and beyond), Part Two offers a number of case studies. These focus on specific theological issues that have developed through the dilemmatic and often polemical interactions between the different theological schools and thinkers. Part Three covers Islamic theology during the later middle and early modern periods. One of the characteristics of this period is the growing amalgamation of theology with philosophy (Peripatetic and Illuminationist) and mysticism. Part Four addresses the impact of political and social developments on theology through a number of case studies: the famous *miḥna* instituted by al-Ma'mun (r. 189/813-218/833) as well as the *mihna* to which Ibn 'Aqil (d. 769/1367) was subjected; the religious policy of the Almohads; as well as the shifting interpretations throughout history (particularly during Mamluk and Ottoman times) of the relation between Ash'arism and Maturidism that were often motivated by political motives. Part Five considers Islamic theological thought from the end of the early modern and during the modern period.

A Sense of Place

Pulitzer Prize-winning biologist Edward O. Wilson imparts the wisdom of his storied career to the next

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generation. Edward O. Wilson has distilled sixty years of teaching into a book for students, young and old. Reflecting on his coming-of-age in the South as a Boy Scout and a lover of ants and butterflies, Wilson threads these twenty-one letters, each richly illustrated, with autobiographical anecdotes that illuminate his career—both his successes and his failures—and his motivations for becoming a biologist. At a time in human history when our survival is more than ever linked to our understanding of science, Wilson insists that success in the sciences does not depend on mathematical skill, but rather a passion for finding a problem and solving it. From the collapse of stars to the exploration of rain forests and the oceans' depths, Wilson instills a love of the innate creativity of science and a respect for the human being's modest place in the planet's ecosystem in his readers.

Handbook of Hydrocolloids

This valuable reference work synthesizes and elucidates traditional themes and issues in Islamic philosophy as well as prominent topics emerging from the last twenty years of scholarship. Written for a wide readership of students and scholars, The Routledge Companion to Islamic Philosophy is unique in including coverage of both perennial philosophical issues in an Islamic context and also distinct concerns that emerge from Islamic religious thought. This work constitutes a substantial affirmation that Islamic philosophy is an integral part of the Western philosophical tradition. Featuring 33 chapters, divided into seven thematic sections, this volume explores

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the major areas of philosophy: Logic, Metaphysics, Philosophy in the Sciences, Philosophy of Mind/Epistemology, and Ethics/Politics as well as philosophical issues salient in Islamic revelation, theology, prophecy, and mysticism. Other features include:

- A focus on both the classical and post-classical periods
- A contributing body that includes both widely respected scholars from around the world and a handful of the very best younger scholars
- "Reference" and "Further Reading" sections for each chapter and a comprehensive index for the whole volume

The result is a work that captures Islamic philosophy as philosophy. In this way it serves students and scholars of philosophy and religious studies and at the same time provides valuable essays relevant to the study of Islamic thought and theology.

Organic Reaction Mechanism

Starch, in its many forms, provides an essential food energy source for the world's human population. It is therefore vital for manufacturers (and ultimately consumers) to have increased understanding of the granule synthesis and its behaviour in modern food processing. *Starch: Advances in Structure and Function* documents the latest research and opinion on starch structure and its function as a food material, including structure characterisation, processing and ingredient functionality, and control of starch biosynthesis. The multi-disciplinary nature of the contents will provide a valuable reference for biologists, chemists, food technologists, geneticists,

nutritionists and physicists.

The Culture of the Copy

This book provides the first resource dedicated to critically examining gender and sex in study designs, methods, and analysis in health research. In order to produce ethical, accurate, and effective research findings it is vital to integrate both sex (biological characteristics) and gender (socially constructed factors) into any health study. This book draws attention to some of the methodological complexities in this enterprise and offers ways to thoughtfully address these by drawing on empirical examples across a range of topics and disciplines.

Palliative Care in Oncology

The first concern of scientists who are interested in synthetic polymers has always been, and still is: How are they synthesized? But right after this comes the question: What have I made, and for what is it good? This leads to the important topic of the structure-property relations to which this book is devoted. Polymers are very large and very complicated systems; their characterization has to begin with the chemical composition, configuration, and conformation of the individual molecule. The first chapter is devoted to this broad objective. The immediate physical consequences, discussed in the second chapter, form the basis for the physical nature of polymers: the supermolecular interactions and arrangements of the individual macromolecules. The

third chapter deals with the important question: How are these chemical and physical structures experimentally determined? The existing methods for polymer characterization are enumerated and discussed in this chapter. The following chapters go into more detail. For most applications-textiles, films, molded or extruded objects of all kinds-the mechanical and the thermal behaviors of polymers are of pre ponderant importance, followed by optical and electric properties. Chapters 4 through 9 describe how such properties are rooted in and dependent on the chemical structure. More-detailed considerations are given to certain particularly important and critical properties such as the solubility and permeability of polymeric systems. Macromolecules are not always the final goal of the chemist-they may act as intermediates, reactants, or catalysts. This topic is presented in Chapters 10 and 11.

Advances in Tissue Banking

This volume originates from an international conference held at Oxford University in 2007. Texts by classical archaeologists, art historians, students of the history of collecting, curators, conservators and artists address objects and themes from antiquity to the present day, ancient Egypt to 20th-century Mexico and contemporary Europe. They explore status, reception and functions of casts as well as hands-on issues, such as the making, trading, display and conservation of plaster casts. A handbook for students, academics, curators and collectors, the text will become a standard work on the role of plaster

casts in the history of Western sculpture.

Pagans and Philosophers

A novel attempt to make sense of our preoccupation with copies of all kinds -- from counterfeits to instant replay, from parrots to photocopies.

Named Organic Reactions

This Second edition contains concise information on 134 carefully chosen named organic reactions - the standard set of undergraduate and graduate synthetic organic chemistry courses. Each reaction is detailed with clearly drawn mechanisms, references from the primary literature, and well-written accounts covering the mechanical aspects of the reactions, and the details of side reactions and substrate limitations. For the 2nd edition the complete text has been revised and updated, and four new reactions have been added: Baylis-Hillmann Reaction, Sonogashira Reaction, Pummerer Reaction, and the Swern Oxidation and Cyclopropanation. An essential text for students preparing for exams in organic chemistry.

Advanced Dietary Fibre Technology

Critical to the accurate diagnosis of human illness is the need to distinguish clinical features that fall within the normal range from those that do not. That distinction is often challenging and not infrequently requires considerable experience at the bedside. It is not surprising that accurate cytogenetic diagnosis is

also often a challenge, especially when chromosome study reveals morphologic findings that raise the question of normality. Given the realization that modern human cytogenetics is just over five decades old, it is noteworthy that thorough documentation of normal chromosome variation has not yet been accomplished. One key diagnostic consequence of the inability to distinguish a “normal” variation in chromosome structure from a pathologic change is a missed or inaccurate diagnosis. Clinical cytogeneticists have not, however, been idle. Rather, progressive biotechnological advances coupled with virtual completion of the human genome project have yielded increasingly better microscopic resolution of chromosome structure. Witness the progress from the early short condensed chromosomes to the later visualization of chromosomes through banding techniques, high-resolution analysis in prophase, and more recently to analysis by fluorescent in situ hybridization (FISH).

Conceptualizing Cultural Hybridization

The purpose of this volume is to identify and analyze the mechanisms and processes through which concepts and institutions of transcultural phenomena gain and are given momentum. Applied to a range of cases, including examples drawn from ancient Greece and modern India, the early modern Portuguese presence in China and politics of elite-mass dynamics in the People’s Republic of China, the book provides a template for the study of transcultural dynamics over time. Besides the epochal range, the papers in this

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volume illustrate the thematic diversity assembled under the umbrella of the Heidelberg Cluster of Excellence “Asia and Europe in a Global Context.” Drawing from both the humanities and social sciences, stretching across several world areas and centuries, the book is an interdisciplinary work, aptly reflected in the collaboration of its editors: a historian and political scientist.

The Transformative Power of the Copy

Plant Biochemistry

Unique in its broad range of coverage, *Food Carbohydrates: Chemistry, Physical Properties and Applications* is a comprehensive, single-source reference on the science of food carbohydrates. This text goes beyond explaining the basics of food carbohydrates by emphasizing principles and techniques and their practical application in quality control, product development, and research. The editor incorporates information on analytical methods, the structural analysis of polysaccharides, physical properties, molecular conformation and characterization, and industrial applications of polysaccharide gums. The analytical methods and structural analysis of polysaccharides are rarely presented in books on food carbohydrates - topics this text fully illustrates. It also presents particulars on starch and starch modification, with a focus on reaction principles, improved functional properties, and practical applications. *Food Carbohydrates:*

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Chemistry, Physical Properties and Applications is the only known current reference to include basic chemistry, analytical methodologies, structural analysis, conformation and functional properties, and rheological and thermal properties of food carbohydrates all in one text. This book is ideal as a professional reference for researchers, engineers, and those interested in food carbohydrates, as well as a textbook for graduate students.

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