

Angeline M Lyon Nih Public Access David M Thal John K

Ideal for shoulder surgeons who want to upgrade their skills to the next level, this practical, step-by-step text presents the latest cutting-edge management strategies and science aimed at shoulder preservation surgery. Highlighting four main areas - the overhead athlete, shoulder instability, glenohumeral arthritis, and the rotator cuff - these innovative techniques focus on the maintenance of the native shoulder joint. Chapters open with an introduction to the clinical problem, followed by misgivings related to open surgery or arthroplasty as treatment strategies. A rationale for the arthroscopic treatment is then presented, along with an in-depth description of the technique itself as well as preliminary results. Techniques presented include posterior capsule release for the overhead athlete, arthroscopic Latarjet for instability, the CAM procedure for glenohumeral arthritis, biological augmentation for rotator cuff repair. A fifth section covers post-operative care and return-to-play considerations. With contributions from many of the top thinkers and surgeons of the shoulder, *Elite Techniques in Shoulder Arthroscopy* brings these exciting new management strategies to the fore with the aim of elevating them to more common practice for orthopedic surgeons and sports medicine specialists.

Population genetics has made great strides in applying statistical analysis and mathematical modeling to understand how genes mutate and spread through populations over time. But real populations also live in space. Streams, mountains, and other geographic features often divide populations, limit migration, or otherwise influence gene flow. This book rigorously examines the processes that determine geographic patterns of genetic variation, providing a comprehensive guide to their study and interpretation. *Geographical Genetics* has a unique focus on the mathematical relationships of spatial statistical measures of patterns to stochastic processes. It also develops the probability and distribution theory of various spatial statistics for analysis of population genetic data, detailing exact methods for using various spatial features to make precise inferences about migration, natural selection, and other dynamic forces. The book also reviews the experimental literature on the types of spatial patterns of genetic variation found within and among populations. And it makes an unprecedented strong connection between observed measures of spatial patterns and those predicted theoretically. Along the way, it introduces readers to the mathematics of spatial statistics, applications to specific population genetic systems, and the relationship between the mathematics of space-time processes and the formal theory of geographical genetics. Written by a leading authority, this is the first comprehensive treatment of geographical genetics. It is a much-needed guide to the theory, techniques, and applications of a field that will play an increasingly important role in population biology and ecology.

Since 1998, the volume of research being conducted using human embryonic stem (hES) cells has expanded primarily using private funds because of restrictions on the use of federal funds for such research. Given limited federal involvement, privately funded hES cell research has thus far been carried out under a patchwork of existing regulations, many of which were not designed with this research specifically in mind. In addition, hES cell research touches on many ethical, legal, scientific, and policy issues that are of concern to the public. This report provides guidelines for the conduct of hES cell research to address both ethical and scientific concerns. The guidelines are intended to enhance the integrity of privately funded hES cell research by encouraging responsible practices in the conduct of that research.

The regenerative capacity of the liver cell is almost unlimited. Therefore after acute liver damage, be it viral, toxic, hypoxic, or surgical in origin, *restitutio ad integrum* is the usual outcome. In two forms of liver disease, however, this is not the case: in fulminant hepatic failure, liver regeneration often is not fast enough to keep the organism alive; in end-stage cirrhosis, regeneration is disturbed by a hypertrophic architecture of fibrotic tissue. For these extreme forms of liver disease and for critical situations before and after liver surgery, artificial liver support is needed. This book contains the latest results in this area of research presented by scientists from all over the world at an international symposium held in Celle, Germany, June 2-4, 1980. Exciting new methods like continuous membrane plasma separation and liver cell transplantation into the spleen have been developed. The older methods of hemoperfusion and dialysis have been improved. Enzymological methods and liver transplantation have made good progress. We hope that this volume will help the clinician in his decision-making and stimulate ingenious new research for the benefit of our liver patients.

Sequential behavior is essential to intelligence in general and a fundamental part of human activities, ranging from reasoning to language, and from everyday skills to complex problem solving. Sequence learning is an important component of learning in many tasks and application fields: planning, reasoning, robotics natural language processing, speech recognition, adaptive control, time series prediction, financial engineering, DNA sequencing, and so on. This book presents coherently integrated chapters by leading authorities and assesses the state of the art in sequence learning by introducing essential models and algorithms and by examining a variety of applications. The book offers topical sections on sequence clustering and learning with Markov models, sequence prediction and recognition with neural networks, sequence discovery with symbolic methods, sequential decision making, biologically inspired sequence learning models.

Analysis and case studies from interdisciplinary perspectives explore the possibility and desirability of collaboration between the grassroots-oriented environmental justice movement and mainstream environmental organizations.

Many of the existing books focusing on the orthopedic management of patients with cerebral palsy encompass only care for the young patient, but this practical text reviews and delineates orthopedic care for patients with cerebral palsy throughout the lifespan. Readers will find a discussion of both non-operative and operative orthopedic management across all ages and functional levels. The text presents a general overview of cerebral palsy, evaluation of patients with cerebral palsy, and procedures commonly used to treat various orthopedic conditions in patients with cerebral palsy. Spasticity management and gait evaluation are likewise highlighted, and surgical chapters cover techniques for the hip, knee, foot and ankle, and spine. It also incorporates chapters focused on issues related to the rehabilitation of patients with cerebral palsy, including bracing, orthotics and other durable medical equipment, physical and occupational therapy, pain management, and adaptive activities and sports, which aim to improve the overall quality of life for patients through the lifespan. Finally, there is a chapter focused on the care transition from childhood to adulthood, an area of importance often neglected in current texts covering patients with cerebral palsy. Whether in the operating room, multi-specialty clinic or private office, *Orthopedic Care of Patients with Cerebral Palsy* will be a go-to resource for orthopedists, pediatricians and all medical professionals caring for this population.

Specific ion effects are important in numerous fields of science and technology. They have been discussed for over 100 years, ever since the pioneering work done by Franz Hofmeister and his group in Prague. Over the last decades, hundreds of examples have been published and periodically explanations have been proposed. However, it is only recently that a profound understanding of the basic effects and their reasons could be achieved. Today, we are not far from a general explanation of specific ion effects. This book summarizes the main new ideas that have come up in the last ten years. In this book, the efforts of theoreticians are substantially supported by the experimental results stemming from new and exciting techniques. Both the new theoretical concepts and the experimental landmarks are collected and critically discussed by eminent scientists and well-known specialists in this field. Beyond the rigorous explanations,

guidelines are given to non-specialists in order to help them understand the general rules governing specific ion effects in chemistry, biology, physics and engineering. Sample Chapter(s). Foreword (36 KB). Chapter 1: An Attempt of a General Overview (1,279 KB). Contents: Examples, Ion Properties and Concepts: An Attempt of a General Overview (W Kunz & R Neueder); Phospholipid Aggregates as Model Systems to Understand Ion-Specific Effects: Experiments and Models (E Leontidis); Modelling Specific Ion Effects in Engineering Science (C Held & G Sadowski); Promising Experimental Techniques: Linear and Non-linear Optical Techniques to Probe Ion Profiles at the Air/CoWater Interface (H Motschmann & P Koelsch); X-Ray Studies of Ion Specific Effects (P Viswanath et al.); The Determination of Specific Ion Structure by Neutron Scattering and Computer Simulation (G W Neilson et al.); Specific Ion Effects at the Air/CoWater Interface: Experimental Studies (V S J Craig & C L Henry); Newest Results from Theory and Simulation: Ion Binding to Biomolecules (M Lund et al.); Ion-Specificity: From Solvation Thermodynamics to Molecular Simulations and Back (J Dzubiella et al.); HNC Calculations of Specific Ion Effects (L Belloni & I Chikina); Modifying the Poisson/CoBoltzmann Approach to Model Specific Ion Effects (M BostrAm et al.); Summary and Conclusions: An Attempt of a Summary (W Kunz & G J T Tiddy). Readership: Graduate students and researchers in physical chemistry, biological chemistry and chemical engineering; colloidal scientists."

Here follows the story of a most extraordinary year in the life of an Ojibwe family and of a girl named "Omakayas," or Little Frog, who lived a year of flight and adventure, pain and joy, in 1852. When Omakayas is twelve winters old, she and her family set off on a harrowing journey. They travel by canoe westward from the shores of Lake Superior along the rivers of northern Minnesota, in search of a new home. While the family has prepared well, unexpected danger, enemies, and hardships will push them to the brink of survival. Omakayas continues to learn from the land and the spirits around her, and she discovers that no matter where she is, or how she is living, she has the one thing she needs to carry her through. Richly imagined, full of laughter and sorrow, *The Porcupine Year* continues Louise Erdrich's celebrated series, which began with *The Birchbark House*, a National Book Award finalist, and continued with *The Game of Silence*, winner of the Scott O'Dell Award for Historical Fiction.

Human Ecology and Infectious Diseases investigates the interrelationships among human behavior, ecology, and infectious diseases, with emphasis on parasitic and zoonotic diseases. The cultural, behavioral, anthropological, and social factors in the transmission of infectious diseases are discussed, along with methods used to make human ecology a more quantitative predictive science in the global challenge of such diseases. Behavioral patterns that place humans at risk to infections and the nature of risk factors are also analyzed. Comprised of 13 chapters, this book begins with an overview of some of the research into those aspects of human behavior that determine risk of helminth infection. The discussion then turns to studies on hookworm and includes an analysis of human behavior and religions that affect transmission of the parasitoses. Human behavior and transmission of zoonotic diseases in North America and Malaysia are documented as are the habits, customs, and superstitions associated with the epidemic of intestinal capillariasis that occurred in the Philippines. Filarial diseases in Southeast Asia are also reviewed, along with the changing patterns of parasitic infections and the cooperation of government and the private sector to lower infection rates in Japan. Cases from Nigeria and Brazil are considered as well. The volume concludes with an assessment of the importance of behavioral and social/cultural factors in determining regional and national patterns in disease incidence and transmission. This monograph should be valuable to students of tropical diseases and public health and to physicians, epidemiologists, anthropologists, veterinarians, and parasitologists.

This text is designed to provide readers with a useful and comprehensive resource and state-of-the-art overview about the new, growing and fast-expanding field of "liquid biopsy" for the management of cancer patients. The liquid biopsy represents an important turning point in oncology since it provides a tool for a serial monitoring of disease. Liquid biopsy is our "hand lens" to follow molecular changes that characterize tumor development and progression. The book provide a unique and valuable resource on the clinical relevance of liquid biopsy as well as on the technical aspects of liquid biopsy analysis. All invited authors are recognized experts in their field. *Liquid Biopsy in Cancer Patients: The Hand Lens for Tumor Evolution* is targeted to resident and fellows physicians, medical oncologists, molecular biologists and biotechnologists.

Retitled to reflect expansion of coverage from the first edition, *Handbook of Meat and Meat Processing, Second Edition*, contains a complete update of materials and nearly twice the number of chapters. Divided into seven parts, the book covers the entire range of issues related to meat and meat processing, from nutrients to techniques for preservation and extending shelf life. Topics discussed include: An overview of the meat-processing industry The basic science of meat, with chapters on muscle biology, meat consumption, and chemistry Meat attributes and characteristics, including color, flavor, quality assessment, analysis, texture, and control of microbial contamination The primary processing of meat, including slaughter, carcass evaluation, and kosher laws Principles and applications in the secondary processing of meat, including braiding, curing, fermenting, smoking, and marinating The manufacture of processed meat products such as sausage and ham The safety of meat products and meat workers, including sanitation issues and hazard analysis Drawn from the combined efforts of nearly 100 experts from 16 countries, the book has been carefully vetted to ensure technical accuracy for each topic. This definitive guide to meat and meat products it is a critical tool for all food industry professionals and regulatory personnel.

This, the first of two volumes on personalized medicine in lung cancer, touches on the core issues related to the understanding of lung cancer—statistics and epidemiology of lung cancer—along with the incidence of lung cancer in non-smokers. A major focus of this volume is the state of current therapies against lung cancer—immune, targeted therapies against EGFR TKIs, KRAS, ALK, angiogenesis; the associated challenges, especially resistance mechanisms; and recent progress in targeted drug development based on metal chemistry. Chapters are written by some of the leading experts in the field, who provide a better understanding of lung cancer, the factors that make it lethal, and current research focused on developing personalized treatment plans. With a unique mix of topics, this volume summarizes the current state-of-knowledge on lung cancer and the available therapies.

Cytogenomics Academic Press

A biography of the noted Mexican muralist discusses his art, his political ties and beliefs, and his marriage to the painter Frida Kahlo

Offering over 2000 useful references and more than 200 helpful tables, equations, drawings, and photographs, this book presents research on food phosphates, commercial

starches, antibrowning agents, essential fatty acids, and fat substitutes, as well as studies on consumer perceptions of food additives. With contributions from nearly 50 leading international authorities, the Second Edition of Food Additives details food additives for special dietary needs, contemporary studies on the role of food additives in learning, sleep, and behavioral problems in children, safety and regulatory requirements in the U.S. and the European Union, and methods to determine hypersensitivity.

Helps aspiring college students discover where their strengths truly lie and how to develop them to reach their full potential at school and later in the real world.

While mapped data provide a common ground for discussions between the public, the media, regulatory agencies, and public health researchers, the analysis of spatially referenced data has experienced a phenomenal growth over the last two decades, thanks in part to the development of geographical information systems (GISs). This is the first thorough overview to integrate spatial statistics with data management and the display capabilities of GIS. It describes methods for assessing the likelihood of observed patterns and quantifying the link between exposures and outcomes in spatially correlated data. This introductory text is designed to serve as both an introduction for the novice and a reference for practitioners in the field. Requires only minimal background in public health and only some knowledge of statistics through multiple regression. Touches upon some advanced topics, such as random effects, hierarchical models and spatial point processes, but does not require prior exposure. Includes lavish use of figures/illustrations throughout the volume as well as analyses of several data sets (in the form of "data breaks"). Exercises based on data analyses reinforce concepts.

"Mesmerizing & fascinating..." —The Seattle Post-Intelligencer "The Freakonomics of big data." —Stein Kretsinger, founding executive of Advertising.com Award-winning | Used by over 30 universities | Translated into 9 languages An introduction for everyone. In this rich, fascinating — surprisingly accessible — introduction, leading expert Eric Siegel reveals how predictive analytics (aka machine learning) works, and how it affects everyone every day. Rather than a "how to" for hands-on techies, the book serves lay readers and experts alike by covering new case studies and the latest state-of-the-art techniques. Prediction is booming. It reinvents industries and runs the world. Companies, governments, law enforcement, hospitals, and universities are seizing upon the power. These institutions predict whether you're going to click, buy, lie, or die. Why? For good reason: predicting human behavior combats risk, boosts sales, fortifies healthcare, streamlines manufacturing, conquers spam, optimizes social networks, toughens crime fighting, and wins elections. How? Prediction is powered by the world's most potent, flourishing unnatural resource: data. Accumulated in large part as the by-product of routine tasks, data is the unsalted, flavorless residue deposited en masse as organizations churn away. Surprise! This heap of refuse is a gold mine. Big data embodies an extraordinary wealth of experience from which to learn. Predictive analytics (aka machine learning) unleashes the power of data. With this technology, the computer literally learns from data how to predict the future behavior of individuals. Perfect prediction is not possible, but putting odds on the future drives millions of decisions more effectively, determining whom to call, mail, investigate, incarcerate, set up on a date, or medicate. In this lucid, captivating introduction — now in its Revised and Updated edition — former Columbia University professor and Predictive Analytics World founder Eric Siegel reveals the power and perils of prediction: What type of mortgage risk Chase Bank predicted before the recession. Predicting which people will drop out of school, cancel a subscription, or get divorced before they even know it themselves. Why early retirement predicts a shorter life expectancy and vegetarians miss fewer flights. Five reasons why organizations predict death — including one health insurance company. How U.S. Bank and Obama for America calculated the way to most strongly persuade each individual. Why the NSA wants all your data: machine learning supercomputers to fight terrorism. How IBM's Watson computer used predictive modeling to answer questions and beat the human champs on TV's Jeopardy! How companies ascertain untold, private truths — how Target figures out you're pregnant and Hewlett-Packard deduces you're about to quit your job. How judges and parole boards rely on crime-predicting computers to decide how long convicts remain in prison. 182 examples from Airbnb, the BBC, Citibank, ConEd, Facebook, Ford, Google, the IRS, LinkedIn, Match.com, MTV, Netflix, PayPal, Pfizer, Spotify, Uber, UPS, Wikipedia, and more. How does predictive analytics work? This jam-packed book satisfies by demystifying the intriguing science under the hood. For future hands-on practitioners pursuing a career in the field, it sets a strong foundation, delivers the prerequisite knowledge, and whets your appetite for more. A truly omnipresent science, predictive analytics constantly affects our daily lives. Whether you are a consumer of it — or consumed by it — get a handle on the power of Predictive Analytics.

A slave and her family find refuge on Roanoke Island, North Carolina, during the Civil War.

As global climate change proliferates, so too do the health risks associated with the changing world around us. Called for in the President's Climate Action Plan and put together by experts from eight different Federal agencies, The Impacts of Climate Change on Human Health: A Scientific Assessment is a comprehensive report on these evolving health risks, including: Temperature-related death and illness Air quality deterioration Impacts of extreme events on human health Vector-borne diseases Climate impacts on water-related illness Food safety, nutrition, and distribution Mental health and well-being This report summarizes scientific data in a concise and accessible fashion for the general public, providing executive summaries, key takeaways, and full-color diagrams and charts. Learn what health risks face you and your family as a result of global climate change and start preparing now with The Impacts of Climate Change on Human Health.

In this unusual autobiography you will find the full story of a life spanning much of the twentieth century. Selective reading will disclose How a teacher/scientist may develop The importance of focus and integrity The fascination of doing chemical and biochemical research with students and colleagues The excitement of discovery and of facing new challenges Personal details about family life and friendships Career choices and diversions Plus In the 23 (!) appendices, you will find details concerning Other activities attendant upon a career in science The influence of conferences, symposia, and international scientific connections The coworkers who built the reputation of the author

The IARC Monographs series publishes authoritative independent assessments by international experts of the carcinogenic risks posed to humans by a variety of agents, mixtures and exposures. They are a resource of information for both researchers and national and international authorities. This volume is particularly significant because tobacco smoke not only causes more deaths from cancer than any other known agent; it also causes more deaths from vascular and respiratory diseases. This volume contains all the relevant information on both direct and passive smoking. It is organised by first looking at the nature of agent before collecting the evidence of cancer in humans. This is followed by carcinogenicity studies on animals and then any other data relevant to an evaluation.

Pain is a challenging area to understand for any healthcare professional, and quality training on the subject is required if nurses are to provide effective pain management and person-centred care. Based on the curriculum developed by the International Association for the Study of Pain, this book offers an essential guide to managing pain. Beginning with an examination of the biology of pain, it then goes on to consider pain management across the life course, looking at key topics including acute pain, cancer pain and pharmacology. Case scenarios are included throughout the book to help readers apply the knowledge they have learned to their own practice. This book is aimed primarily at meeting the learning needs of undergraduate nurses, and is essential reading for all healthcare professionals studying pain. The text will be helpful as a basic foundation for more advanced postgraduate courses in pain management in nursing practice. Hygiene, together with epidemiology, represent the integral, biomedical fundamentals of public health. The threat of epidemics depopulating both rural population and expanding urban centres, compelled medicine to develop these two new disciplines in the 19th century. Hygiene is the science of health preservation. Originally, it dealt with all factors affecting the physical and mental health and well-being of the population; it was rooted in the medical knowledge of disease incidence and disease prevention. The firm link between hygienic theories and practice with that of health status promote the prevention and control over infectious diseases. Initially, epidemiological focus was on communicable diseases, later it expanded to non-communicable ones. This text will support the preparation for a state exam at a pre-graduate level, providing thus a starting point for acquiring the desirable knowledge. Second revised edition

"Nuclear envelope (NE) defects have been linked to cancer biology since the mid-1800s, but it was not until the last few years that we have begun to understand these historical links and to realize that there are myriad ways that the NE impacts on tumorigenesis. The NE is a complex double membrane system that encloses the genome while providing structural support through the intermediate filament lamin polymer and regulating protein/ mRNA trafficking and signaling between the nucleus and cytoplasm via the nuclear pore complexes (NPCs). These functions already provide some mechanisms for NE influences on cancer biology but work in the past few years has elucidated many others. Lamins and many recently identified NE transmembrane proteins (NETs) have been now shown to function in DNA repair, regulation of cell cycle and signaling, apoptosis, cell migration in metastasis and nuclear architecture and morphology. This volume presents a comprehensive overview of the wide range of functions recently identified for NE proteins and their relevance in cancer biology, providing molecular mechanisms and evidence of their value as prognostic and diagnostic markers and suggesting new avenues for the treatment of cancer. Indeed some of these recent links are already yielding promising therapies, such as the current clinical trial of selective inhibitors of the nuclear export factor exportin in certain types of leukemia, melanoma and kidney cancer."

This edited volume brings together a diverse group of environmental science, sustainability and health researchers to address the challenges posed by global mass poisoning caused by arsenic water contamination. The book sheds light on this global environmental issue, and proposes solutions to aquatic contamination through a multi-disciplinary lens and case studies from Bangladesh and India. The book may serve as a reference to environment and sustainability researchers, students and policy makers. Part one of the book describes the issue of arsenic contamination in ground water and river basins, including its source and distribution in specific locations in India. Part two explains the routes of exposure to environmental arsenic, its transport in aquatic ecosystems, and the health risks linked to arsenic exposure in food and the environment. Part three addresses sustainable arsenic contamination mitigation strategies and policies, the socioeconomic, demographic, cultural and psychological aspects of arsenic contamination, and the potential applications of GIS and remote sensing in providing solutions. Part four concludes by discussing the role of local and regional institutions in water resources management for a variety of issues including but not limited to arsenic contamination, and presents a case study in the Indus river basin in Pakistan to propose future contamination mitigation strategies.

Cytogenomics demonstrates that chromosomes are crucial in understanding the human genome and that new high-throughput approaches are central to advancing cytogenetics in the 21st century. After an introduction to (molecular) cytogenetics, being the basic of all cytogenomic research, this book highlights the strengths and newfound advantages of cytogenomic research methods and technologies, enabling researchers to jump-start their own projects and more effectively gather and interpret chromosomal data. Methods discussed include banding and molecular cytogenetics, molecular combing, molecular karyotyping, next-generation sequencing, epigenetic study approaches, optical mapping/karyomapping, and CRISPR-cas9 applications for cytogenomics. The book's second half demonstrates recent applications of cytogenomic techniques, such as characterizing 3D chromosome structure across different tissue types and insights into multilayer organization of chromosomes, role of repetitive elements and noncoding RNAs in human genome, studies in topologically associated domains, interchromosomal interactions, and chromoanagenesis. This book is an important reference source for researchers, students, basic and translational scientists, and clinicians in the areas of human genetics, genomics, reproductive medicine, gynecology, obstetrics, internal medicine, oncology, bioinformatics, medical genetics, and prenatal testing, as well as genetic counselors, clinical laboratory geneticists, bioethicists, and fertility specialists. Offers applied approaches empowering a new generation of cytogenomic research using a balanced combination of classical and advanced technologies Provides a framework for interpreting chromosome structure and how this affects the functioning of the genome in health and disease Features chapter contributions from international leaders in the field

The Proceedings of the Fourth International Metallothionein Meeting (MT-97) feature the latest research on metallothionein. The book covers a broad range of topics which provide important information for both basic and clinical investigators. The selected 94 articles in this book are written by the leading scientists in the field around the world. This is an increasingly important, multi-disciplinary area of study that has benefitted from recent advances in concepts and methodologies from other fields.

The two-volume set (LNCS 6728 and 6729) constitutes the refereed proceedings of the International Conference on Swarm Intelligence, ICSI 2011, held in Chongqing, China, in June 2011.

The 143 revised full papers presented were carefully reviewed and selected from 298 submissions. The papers are organized in topical sections on theoretical analysis of swarm intelligence algorithms, particle swarm optimization, applications of pso algorithms, ant colony optimization algorithms, bee colony algorithms, novel swarm-based optimization algorithms, artificial immune system, differential evolution, neural networks, genetic algorithms, evolutionary computation, fuzzy methods, and hybrid algorithms - for part I. Topics addressed in part II are such as multi-objective optimization algorithms, multi-robot, swarm-robot, and multi-agent systems, data mining methods, machine learning methods, feature selection algorithms, pattern recognition methods, intelligent control, other optimization algorithms and applications, data fusion and swarm intelligence, as well as fish school search - foundations and applications.

Contains biographical chapters on famous chemists, historical and contemporary, in coordination chemistry and chapters describing historical aspects of the field. Examines current issues in isomerism and other aspects of coordination chemistry. Reviews applications of coordination chemistry, including solvent extraction of metals, materials chemistry, and environmental chemistry. Includes contributions from Nobel laureates Glenn T. Seaborg and Linus Pauling, and an introduction by Joseph Chatt. Organized to celebrate the 100th anniversary of the publication of Alfred Werner's coordination theory, the volume's 37 chapters include papers presented at the Coordination Chemistry Symposium as well as additional invited papers.

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