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Telomeres and Telomerase - Predrag Slijepcevic 2008
Telomeres are essential functional elements of eukaryotic chromosomes. Their fundamental biological role as protectors of chromosome stability was identified for the first time in the 1930s by Hermann Muller and Barbara McClintock based on pioneering cytological experiments. Modern molecular research carried out more recently revealed that telomeres and telomerase play important roles in processes such as carcinogenesis and cellular senescence. This special issue presents the most recent developments in this highly active field of research. It is becoming increasingly clear that molecular pathways involved in regulation of telomere length and structure are functionally linked with pathways involved in DNA damage response, cellular stress response, chromatin organization and perhaps even pathways that regulate evolutionary chromosome rearrangements. The above functional link is explored by the leading experts in the field of telomere biology. Cell biologists, molecular biologists, oncologists, gerontologists, and radiobiologists with an interest in the role of telomeres/telomerase will appreciate the up-to-date information in this publication.

Mesoscopic Physics of Electrons and Photons - Eric Akkermans 2007-05-28
Quantum mesoscopic physics covers a whole class in interference effects related to the propagation of waves in complex and random media. These effects are ubiquitous in physics, from the behaviour of electrons in metals and semiconductors to the propagation of electromagnetic waves in suspensions such as colloids, and quantum systems like cold atomic gases. A solid introduction to quantum mesoscopic physics, this book is a modern account of the problem of coherent wave propagation in random media. It provides a unified account of the basic theoretical tools and methods, highlighting the common aspects of the various optical and electronic phenomena involved and presenting a large number of experimental results. With over 200 figures, and exercises throughout, the book was originally published in 2007 and is ideal for graduate students in physics, electrical engineering, applied physics, acoustics and astrophysics. It will also be an interesting reference for researchers.

Inside the Space Ships - George Adamski 2018-03-12
What has happened to George Adamski since he wrote the famous incidents in Flying Saucers Have Landed? Since the memorable November

20, 1952, when he first made personal contact with a man from another world? Since December 13, 1952 when he was able to make photographs within 100 feet of the same saucer that had brought his original visitor? Inside The Space Ships is Adamski's own story of what has happened to him since then. It begins with his first meeting, a few months later, with a second man from another world—his first meeting with one who speaks to him. This second visitor brings him to a Venusian Scout (flying saucer) and this, in turn, brings him to a mother ship. Later lie is conveyed in both a Saturnian Scout and a Saturnian mother ship. Adamski tells us what transpires in these space craft and what the men and women from other worlds have told him. Adamski's photographs of flying saucers, originally published in Flying Saucers Have Landed, have since become world-famous as other witnesses in other parts of the world have succeeded in taking photographs identical with his. Now, however, in Inside The Space Ships, Adamski gives us 16 photographs and illustrations, no longer of Scouts (flying saucers) mostly, but of the great space ships from which they are launched. The main group of these photographs was taken in April, 1955, and neither the photographs nor a description of them has ever been published before.

Chicano Manual on How to Handle Gringos - Jos? Angel Guti?rrez 2003-04-30

Under this somewhat threatening title, the renowned civil rights leader Jos? Angel Guti?rrez provides a guidebook to minority empowerment through the use of analysis, practical experience and anecdote. His primary goal is the conversion of Latino demographic power into educational, economic and political power. In an incisive introduction, Guti?rrez analyzes the types of power and evaluates Chicano and Latino access to power at various levels in U.S. society. In very plain, down-to-earth language and examples, Guti?rrez takes pains to make his broad knowledge and experience available to everyone, but especially to those who want to be activists for themselves and their communities. For him the empowerment of a minority or working-class person can transfer into greater empowerment of the whole community. This manual penned by the founder of the only successful Hispanic political party, La Raza Unida, brings together an impressive breadth of models to either follow or avoid. Quite often, Guti?rrezÍs voice is not only the seasoned voice of reason, but also that of humor, wry wit and satire. If nothing else, The Chicano Manual on How to Handle Gringos is a wonderful survey of the Chicano and Latino community on the move in all spheres of life in the United States on the very eve of its demographic and cultural ascendancy.

Southern Edwardseans - Obbie Tyler Todd 2022-01-17

The founders and forerunners of the Southern Baptist Convention were fundamentally shaped by the thought of Puritan theologian Jonathan Edwards and his theological successors. While Baptists in the antebellum South boasted a different theological pedigree than Presbyterians or Congregationalists, and while they inhabited a Southern landscape unfamiliar to the bustling cities and tall forests of New England, they believed their similarities with Edwards far outweighed their differences. Like Edwards, these Baptists were revivalistic, Calvinistic, loosely confessional, and committed to practical divinity. In these four things, Southern Edwardseanism lived, moved, and had its being. In the nineteenth-century, when so many Presbyterians scoffed at Edwards's "innovation" and Methodists scorned his Calvinism, Baptists found in Edwards a man after their own heart. By 1845, at the first Southern Baptist Convention, Southern Edwardseans had laid the groundwork for a convention marked by the theology of Jonathan Edwards.

Taco Terrier 20 Milestones - Global Doggy 2019-11-21

Create those memorable moments with this unique and very challenging milestone book - the first of it's kind. Use props in order to set the stage for each photo. Have family and friends get involved in the fun. Share your photos with friends, family and communities, and enjoy welcoming feedback. Good luck with your journey and have a great time. Enjoy!

First International Meeting on Microbial Phosphate Solubilization - E. Velazquez 2007-05-27

In 2002, sixty international specialists met to discuss problems of high P-unavailability as a soil nutrient for crops, and the hazards of increased phosphate input to aquatic habitats

from industrial and mining activities, sewage disposal, detergents, and other sources. Among the presentations were updated solutions to enhance P-uptake by plants, bioremediation potential in the rehabilitation of ecosystems, taxonomic characterization interactions with mycorrizae, the physiological and molecular basis of PSM, and more.

Sakura's Cherry Blossoms - Robert Paul Weston 2018-02-20

A warm, gorgeous exploration of a little girl's experience immigrating to a new country and missing her home and her grandmother, who still lives far away. Sakura's dad gets a new job in America, so she and her parents make the move from their home in Japan. When she arrives in the States, most of all she misses her grandmother and the cherry blossom trees, under which she and her grandmother used to play and picnic. She wonders how she'll ever feel at home in this new place, with its unfamiliar language and landscape. One day, she meets her neighbor, a boy named Luke, and begins to feel a little more settled. When her grandmother becomes ill, though, her family takes a trip back to Japan. Sakura is sad when she returns to the States and once again reflects on all she misses. Luke does his best to cheer her up -- and tells her about a surprise he knows she'll love, but she'll have to wait till spring. In the meantime, Sakura and Luke's friendship blooms and finally, when spring comes, Luke takes her to see the cherry blossom trees flowering right there in her new neighborhood. Sakura's Cherry Blossoms captures the beauty of the healing power of friendship through Weston's Japanese poetry-inspired text and Saburi's breathtaking illustrations.

Cuban Art & Identity - Lucinda H. Gedeon 2013

Mitochondrial Dysfunction - Lawrence H. Lash 2013-10-22

Methods in Toxicology, Volume 2: Mitochondrial Dysfunction provides a source of methods, techniques, and experimental approaches for studying the role of abnormal mitochondrial function in cell injury. The book discusses the methods for the preparation and basic functional assessment of mitochondria from liver, kidney, muscle, and brain; the methods for assessing mitochondrial dysfunction in vivo and in intact organs; and the structural aspects of mitochondrial dysfunction are addressed. The text also describes chemical detoxification and metabolism as well as specific metabolic reactions that are especially important targets or indicators of damage. The methods for measurement of alterations in fatty acid and phospholipid metabolism and for the analysis and manipulation of oxidative injury and antioxidant systems are also considered. The book further tackles additional methods on mitochondrial energetics and transport processes; approaches for assessing impaired function of mitochondria; and genetic and developmental aspects of mitochondrial disease and toxicology. The text also looks into mitochondrial DNA synthesis, covalent binding to mitochondrial DNA, DNA repair, and mitochondrial dysfunction in the context of developing individuals and cellular differentiation. Microbiologists, toxicologists, biochemists, and molecular pharmacologists will find the book invaluable.

Numerical Semigroups - J.C. Rosales 2009-12-24

"Numerical Semigroups" is the first monograph devoted exclusively to the development of the theory of numerical semigroups. This concise, self-contained text is accessible to first year graduate students, giving the full background needed for readers unfamiliar with the topic. Researchers will find the tools presented useful in producing examples and counterexamples in other fields such as algebraic geometry, number theory, and linear programming.

Dad's Awesome Grilling Book - Bob Sloan 2013-09-17

Get fired up as the author of Great Burgers offers up sage grilling advice, witty reflections, and over one hundred tasty recipes. Bob Sloan offers tasty recipes, sage advice, and witty reflections in this ultimate tribute to the glory of dads and their grills. He shows how easy it is to transform fresh ingredients into one hundred sizzling, delicious dishes like Honey-Glazed Spareribs, Lamb Burgers, and Grilled Sweet Potatoes. Even super-busy dads will run out of excuses with the section on 10 Super-Fast, Foolproof, Grilling Recipes—perfect for weeknight dinners. In addition to these family-

impressing recipes, this essential grilling book serves up tips on keeping it simple when it comes to tools, how to choose between charcoal and gas, and why no one can ever have too many serving dishes.

Optical Trapping (Laser Tweezers) and Nanosurgery (Laser Scissors) - Michael W. Berns 2022-02-03

Conservation Science in Mexico's Northwest. Ecosystem Status and Trends in the Gulf of California - Elisabet V. Wehncke 2014-01-01

Ecotoxicological QSARs - Kunal Roy 2021-01-31

This volume focuses on computational modeling of the ecotoxicity of chemicals and presents applications of quantitative structure–activity relationship models (QSARs) in the predictive toxicology field in a regulatory context. The extensive book covers a variety of protocols for descriptor computation, data curation, feature selection, learning algorithms, validation of models, applicability domain assessment, confidence estimation for predictions, and much more, as well as case studies and literature reviews on a number of hot topics. Written for the Methods in Pharmacology and Toxicology series, chapters include the kind of practical advice that is essential for researchers everywhere. Authoritative and comprehensive, Ecotoxicological QSARs is an ideal source to update readers in the field with current practices and introduce to them new developments and should therefore be very useful for researchers in academia, industries, and regulatory bodies.

Nature and History in Modern Italy - Marco Armiero 2010-08-31

Marco Armiero is Senior Researcher at the Italian National Research Council and Marie Curie Fellow at the Institute of Environmental Sciences and Technologies, Universitat Aut(noma de Barcelona. He has published extensively on-Italian environmental history and edited Views from the South: Environmental Stories from the Mediterranean World. --

Estimation of Distribution Algorithms - Pedro Larrañaga 2012-12-06

Estimation of Distribution Algorithms: A New Tool for Evolutionary Computation is devoted to a new paradigm for evolutionary computation, named estimation of distribution algorithms (EDAs). This new class of algorithms generalizes genetic algorithms by replacing the crossover and mutation operators with learning and sampling from the probability distribution of the best individuals of the population at each iteration of the algorithm. Working in such a way, the relationships between the variables involved in the problem domain are explicitly and effectively captured and exploited. This text constitutes the first compilation and review of the techniques and applications of this new tool for performing evolutionary computation. Estimation of Distribution Algorithms: A New Tool for Evolutionary Computation is clearly divided into three parts. Part I is dedicated to the foundations of EDAs. In this part, after introducing some probabilistic graphical models - Bayesian and Gaussian networks - a review of existing EDA approaches is presented, as well as some new methods based on more flexible probabilistic graphical models. A mathematical modeling of discrete EDAs is also presented. Part II covers several applications of EDAs in some classical optimization problems: the travelling salesman problem, the job scheduling problem, and the knapsack problem. EDAs are also applied to the optimization of some well-known combinatorial and continuous functions. Part III presents the application of EDAs to solve some problems that arise in the machine learning field: feature subset selection, feature weighting in K-NN classifiers, rule induction, partial abductive inference in Bayesian networks, partitional clustering, and the search for optimal weights in artificial neural networks. Estimation of Distribution Algorithms: A New Tool for Evolutionary Computation is a useful and interesting tool for researchers working in the field of evolutionary computation and for engineers who face real-world optimization problems. This book may also be used by graduate students and researchers in computer science. `... I urge those who are interested in EDAs to study this well-crafted book today.' David E. Goldberg, University of Illinois Champaign-Urbana.

Upwelling Ecosystems - R. Boje 2012-12-06

Upwelling areas are among the most fertile regions of the ocean. In principle, upwelling is

caused by the divergence of the flow in the surface layer of the ocean which arises as a consequence of a particular wind field, the presence of a coastline, or other special conditions. Since deeper oceanic layers are usually enriched wi th nutrients, it is the permanent supply of nutrients which forms the basis for the high producti vi ty of upwelling reg ions. The study of upwelling and its consequences were, for a long time, the task of individual scientists from all disciplines of marine science. Today, it is perhaps the branch of oceanography where interdisciplinary coopera tion has developed best. Becoming aware of the large potential yield of upwelling regions, governments in creased the funds for upwelling research. With research activities developed on a larger scale, interdisciplin ary cooperation became a necessity. On the international level, several symposia documented the rapid development. Three volumes reflect the results of these scientific meetings (Rapp. Proc.-Verb. 159, 1970; Inv. Pesq. 35, 1, 1971; Tethys §.' 1-2, 1974). The present book contains selected papers from the Third Symposium on Upwelling Ecosystems, which was held in Kiel in September 1975. Although the third of a series of meetings, it was the first where the word "ecosystem" stood in the title for a scientific program.

Phonetics in Europe - Charlotte Gooskens 2013

This volume comprehends articles focussing on phonetic aspects of languages and language varieties spoken in present-day Europe. The standard languages of the largest language families, Germanic, Slavic and Romance, are represented as well as minority languages such as Frisian and Finno-Ugric languages, dialects and regiolects. The methods employed are diverse and often innovative, shedding new lights on phonetics in Europe, both from a perception and production point of view.

Molecular Neuropathology - Gareth W. Roberts 1995-06-08

This volume provides an introduction to the essential techniques required for studying the molecular biology of brain disease. The approaches and strategies for investigations of gene structure and regulation are described with reference to the molecular genetics of prion and Alzheimer's disease. The effects of aberrant gene regulation can also be examined at the protein level by immunocytochemistry and autoradiography. Improved understanding of basic biology has resulted in new approaches to animal models using transgenic techniques and new therapeutic approaches. The volume is structured to illustrate all these approaches and demonstrate the practice and promise of molecular neuropathology.

Protein Stability - David S. Eisenberg 1995

The topics covered by this volume include: protein destabilization at low temperatures; engineering the stability and function of Gene V Protein; free energy balance in protein folding; modelling protein stability as a heteropolymer collapse; stability of alpha helices; protein stability with T4 Lysozyme.

Meta-Heuristics - Ibrahim H. Osman 2012-12-06

Meta-heuristics have developed dramatically since their inception in the early 1980s. They have had widespread success in attacking a variety of practical and difficult combinatorial optimization problems. These families of approaches include, but are not limited to greedy random adaptive search procedures, genetic algorithms, problem-space search, neural networks, simulated annealing, tabu search, threshold algorithms, and their hybrids. They incorporate concepts based on biological evolution, intelligent problem solving, mathematical and physical sciences, nervous systems, and statistical mechanics. Since the 1980s, a great deal of effort has been invested in the field of combinatorial optimization theory in which heuristic algorithms have become an important area of research and applications. This volume is drawn from the first conference on Meta-Heuristics and contains 41 papers on the state-of-the-art in heuristic theory and applications. The book treats the following meta-heuristics and applications: Genetic Algorithms, Simulated Annealing, Tabu Search, Networks & Graphs, Scheduling and Control, TSP, and Vehicle Routing Problems. It represents research from the fields of Operations Research, Management Science, Artificial Intelligence and Computer Science.

Handbook of Fruit Science and Technology - D. K. Salunkhe 1995-08-18

This work offers comprehensive, current

coverage of preharvest and postharvest handling and production of fruits grown in tropical, subtropical and temperate regions throughout the world. It discusses over 60 major and minor crops, and details developments in fruit handling and disease control, storage practices, packaging for fruit protection, siz

High Velocity Impact Dynamics - Jonas A. Zukas 1990-11-08

This compendium of mathematical techniques for the modeling and simulation of high-velocity impacts presents the various analytical and experimental aspects of impact dynamics and describes the responses of a variety of materials and structures under impact. Coverage is extended beyond that of the author's Impact Dynamics and deals with new topics in impacts involving inert materials, including the dynamic response to energetic and inert materials. Treatment uses classical mechanics along with the conservation laws, combined with failure analysis.

The New Century Italian Renaissance Encyclopedia - Marvin B.. Becker 1972

Blueschists and Eclogites - Bernard W. Evans 1986

Biomarkers in Cancer - Victor R. Preedy 2015-08-14

In the past decade there has been a major sea change in the way disease is diagnosed and investigated due to the advent of high throughput technologies, such as microarrays, lab on a chip, proteomics, genomics, lipomics, metabolomics etc. These advances have enabled the discovery of new and novel markers of disease relating to autoimmune disorders, cancers, endocrine diseases, genetic disorders, sensory damage, intestinal diseases etc. In many instances these developments have gone hand in hand with the discovery of biomarkers elucidated via traditional or conventional methods, such as histopathology or clinical biochemistry. Together with microprocessor-based data analysis, advanced statistics and bioinformatics these markers have been used to identify individuals with active disease or pathology as well as those who are refractory or have distinguishing pathologies. New analytical methods that have been used to identify markers of disease and is suggested that there may be as many as 40 different platforms. Unfortunately techniques and methods have not been readily transferable to other disease states and sometimes diagnosis still relies on single analytes rather than a cohort of markers. There is thus a demand for a comprehensive and focused evidenced-based text and scientific literature that addresses these issues. Hence the formulation of Biomarkers in Disease. The series covers a wide number of areas including for example, nutrition, cancer, endocrinology, cardiology, addictions, immunology, birth defects, genetics, and so on. The chapters are written by national or international experts and specialists.

The Gulf of California - Richard C. Brusca 2010-04-15

Few places in the world can claim such a diversity of species as the Gulf of California (Sea of Cortez), with its 6,000 recorded animal species estimated to be half the number actually living in its waters. So rich are the Gulf's water that over a half-million tons of seafood are taken from them annuallyÑand this figure does not count the wasted by-catch, which would triple or quadruple that tonnage. This timely book provides a benchmark for understanding the Gulf's extraordinary diversity, how it is threatened, and in what ways it isÑor should beÑprotected. In spite of its dazzling richness, most of the Gulf's coastline now harbors but a pale shadow of the diversity that existed just a half-century ago. Recommendations based on sound, careful science must guide Mexico in moving forward to protect the Gulf of California. This edited volume contains contributions by twenty-four Gulf of California experts, from both sides of the U.S.-Mexico border. From the origins of the Gulf to its physical and chemical characteristics, from urgently needed conservation alternatives for fisheries and the entire Gulf ecosystem to information about its invertebrates, fishes, cetaceans, and sea turtles, this thought-provoking book provides new insights and clear paths to achieve sustainable use solidly based on robust science. The interdisciplinary, international cooperation involved in creating this much-needed collection provides a model for achieving success in answering critically important questions about a

precious but rapidly disappearing ecological treasure.

Lil' Marine - RP Kids 2021-05-18

Celebrate real-life heroes in the US Marine Corps with this early introduction board book series to the US military branches. The Mini Military series focuses on introducing young readers to the various branches of the US military. Lil' Marine highlights what it's like to be in the US Marine Corps, focusing on uniforms, bases, and parachutes, and introducing toddlers to military vehicles, such as the amphibious assault vehicles and aircraft. Perfect for military families, those with veterans in their family, or for anyone looking to expose their youngest readers to parts of American society, this book and the series is sure to inspire and celebrate our brave service men and women.

Just-in-Time Systems - Roger Rios 2011-11-09

Whether different types of costs are to be reduced, benefits to be maximized or scarce resources to be managed, scheduling theory provides intelligent methods for practitioners and scientists. The just-in-time (JIT) production philosophy has enriched the classical scheduling theory with models that consider characteristics such as inventory costs, set-up times, lot sizing, or maintenance. This edited volume considers the specifics of just-in-time systems. It provides knowledge and insights on recent advances in scheduling theory where just-in-time aspects are considered. Contributions on models, theory, algorithms, and applications, that bring the theory up-to-date on the state-of-the-art of JIT systems are presented. Professionals, researchers and graduate students will find this book useful.

Flying Saucers Farewell - George Adamski 1961

Island, River, and Field - John H. Walker 2018-05-01

Archaeologists have long associated the development of agriculture with the rise of the state. But the archaeology of the Amazon Basin, revealing traces of agriculture but lacking evidence of statehood, confounds their assumptions. John H. Walker’s innovative study of the Bolivian Amazon addresses this contradiction by examining the agricultural landscape and analyzing the earthworks from an archaeological perspective. The archaeological data is presented in ascending scale throughout the book. Scholars across archaeology and environmental anthropology will find the methodology and theoretical arguments essential for further study.

Fluorescence in Industry - Bruno Pedras 2019-06-14

This book gathers 12 outstanding contributions that reflect state-of-the-art industrial applications of fluorescence, ranging from the pharmaceutical and cosmetics industries to explosives detection, aeronautics, instrumentation development, lighting, photovoltaics, water treatment and much more. In the field of fluorescence, the translation of research into important applications has expanded significantly over the past few decades. The 18th volume in the Springer Series on Fluorescence fills an important gap by focusing on selected industrial applications of fluorescence, described in contributions by both industry-based researchers and academics engaged in collaborations with industrial partners.

Hormones and Neural Aging: Lessons From Experimental Models - Isabel Varela-Nieto 2019-01-23

How can we slow the signs of aging? Although aging is a natural process for all living things, doing so without dramatic alterations of health and well-being is an important aim in health care. Understanding this gradual but continuous process is fundamental in order to avoid, or at least improve, aging associated illnesses and conditions. The reviews and studies compiled here address various aspects of the relationship between systemic and central changes during the aging process, with hormonal signals as the important liaison.

ARS 45 - United States. Agricultural Research Service 1957

Uniform Plumbing Code Study Guide - Mario J. Fala 1985

The Mathematics of the Uncertain - Eduardo Gil 2018-02-28

This book is a tribute to Professor Pedro Gil, who created the Department of Statistics, OR and TM at the University of Oviedo, and a former

President of the Spanish Society of Statistics and OR (SEIO). In more than eighty original contributions, it illustrates the extent to which Mathematics can help manage uncertainty, a factor that is inherent to real life. Today it goes without saying that, in order to model experiments and systems and to analyze related outcomes and data, it is necessary to consider formal ideas and develop scientific approaches and techniques for dealing with uncertainty. Mathematics is crucial in this endeavor, as this book demonstrates. As Professor Pedro Gil highlighted twenty years ago, there are several well-known mathematical branches for this purpose, including Mathematics of chance (Probability and Statistics), Mathematics of communication (Information Theory), and Mathematics of imprecision (Fuzzy Sets Theory and others). These branches often intertwine, since different sources of uncertainty can coexist, and they are not exhaustive. While most of the papers presented here address the three aforementioned fields, some hail from other Mathematical disciplines such as Operations Research; others, in turn, put the spotlight on real-world studies and applications. The intended audience of this book is mainly statisticians, mathematicians and computer scientists, but practitioners in these areas will certainly also find the book a very interesting read.

2010 IEEE Sensors - 2010

Principles of Plant-Microbe Interactions - Ben Lugtenberg 2014-12-04

The use of microbial plant protection products is growing and their importance will strongly increase due to political and public pressure. World population is growing and the amount of food needed by 2050 will be double of what is produced now whereas the area of agricultural land is decreasing. We must increase crop yield in a sustainable way. Chemical plant growth promoters must be replaced by microbiological products. Also here, the use of microbial products is growing and their importance will strongly increase. A growing area of agricultural land is salinated. Global warming will increase this process. Plants growth is inhibited by salt or even made impossible and farmers tend to disuse the most salinated lands. Microbes have been very successfully used to alleviate salt stress of plants. Chemical pollution of land can make plant growth difficult and crops grown are often polluted and not suitable for consumption. Microbes have been used to degrade these chemical pollutants.

The Earth's Magnetic Interior - Eduard Petrovský 2011-06-11

This volume combines review and solicited contributions, related to scientific studies of Division I of IAGA presented at its Scientific Assembly in Sopron in 2009. The book is aimed at intermediate to advanced readers dealing with the Earth’s magnetic field generation, its historical records in rocks and geological formations - including links to geodynamics and magnetic dating, with magnetic carriers in earth materials, electromagnetic induction and conductivity studies of the Earth interior with environmental applications of rock magnetism and electromagnetism. The aim of the book is to provide an overview of recent advances and future challenges in these particular fields of research.