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Policy Implications of Recent Advances in Evolutionary and Institutional Economics

Cardiac CT obtains information about coronary arteries, great arteries and veins, and heart valves. It shows the location and extent of calcified plaque in the coronary arteries and helps detect coronary artery disease at an early stage, which neither traditional imaging techniques nor cardiac testing can do. Over the last decade technologic advances in CT angiography have been made at a rapid rate, and the new applications and refinements of existing technology continue to be made. This issue will help practicing cardiologists to keep up with the latest technology in this important and swiftly moving field.

Historical Review and Recent Advances in Neonatal and Perinatal Medicine: Perinatal medicine

Recent Advances in Physical and Inorganic Chemistry

Advances in Child Development and Behavior

Biomaterials

There are several well-known books on the market that cover biomaterials in a general way, but none provide adequate focus on the future of and potential for actual uses of emerging nanotechnology in this burgeoning field. Biomaterials: A Nano Approach is written from a multi-disciplinary point of view that integrates aspects of materials science a

Mountain Rivers

Recent Advances in Maintenance and Infrastructure Management is a collection of papers highlighting the state of the art in maintenance of large structures and management of infrastructures. The papers selected in this book are written by international experts from academia and industry, and were presented during the past three International Conference on Maintenance Management (MM Conferences) held from 2005 to 2007 and organized by CNIM (Italian National Committee for Maintenance). The selected papers are categorized into four thematic areas: 1. reliability and maintenance; 2. mathematical modeling and metrics for maintenance; 3. maintenance management and organization, and; 4. facilities management and contracting. The papers cover topics ranging from embedded sensors for diagnostics of structures to organizational issues related to effective maintenance planning. Recent Advances in Maintenance and Infrastructure Management provides readers with a snapshot of the latest developments in the tools and techniques used to conduct maintenance of complex infrastructures and systems. The book will be of interest to researchers and practitioners in academia and industry involved in planning and deployment of maintenance operations. Additionally, this can serve as a reference text for advanced courses in operations management, and structural health monitoring.

Recent Advances in the Modeling of Hydrologic Systems

This book consists of an edited collection of original essays of the highest academic quality by seasoned experts in their fields of cognitive science. The essays are interdisciplinary, drawing from many of the fields known collectively as “the cognitive sciences.” Topics discussed represent a significant cross-section of the most current and interesting issues in cognitive science. Specific topics include matters regarding machine learning and cognitive architecture, the nature of cognitive content, the relationship of information to cognition, the role of language and communication in cognition, the

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nature of embodied cognition, selective topics in visual cognition, brain connectivity, computation and simulation, social and technological issues within the cognitive sciences, and significant issues in the history of neuroscience. This book will be of interest to both professional researchers and newer students and graduate students in the fields of cognitive science—including computer science, linguistics, philosophy, psychology and neuroscience. The essays are in English and are designed to be as free as possible of technical jargon and therefore accessible to young scholars and to scholars who are new to the cognitive neurosciences. In addition to several entries by single authors, the book contains several interesting roundtables where researchers contribute answers to a central question presented to those in the focus group on one of the core areas listed above. This exciting approach provides a variety of perspectives from across disciplines on topics of current concern in the cognitive sciences.

Optimization in Engineering Sciences

Recent Advances in Social Sciences

This book is a selection of studies presented at the 33rd International Conference of the International Computer Archive of Modern and Medieval English (ICAME), hosted by the University of Leuven (30 May - 3 June 2012). The strictly refereed and extensively revised contributions collected here represent recent advances in corpus linguistics, both in the development of specialist corpora and in ways of exploiting them for specific purposes. The first part focuses on “Corpus development and corpus interrogation” and features papers on the compilation of new, highly specialized corpora which aim to fill gaps in historical databases, and on new ways of extracting relevant patterns automatically from computerized datasets. The second part, devoted to “Specialist corpora”, presents detailed descriptive studies on grammatical patterns in World Englishes, on neology, and - using a contrastive approach - on prepositions and cohesive conjunctions. The third and final part on “Second language acquisition” groups together studies situated at the intersection of corpus linguistics and educational linguistics and dealing with markers of relevance and lesser relevance in lectures, deceptive cognates, the automatic annotation of native and non-native uses of demonstrative this and that, and measuring learners’ progress in speech and in writing. Each contribution in its own way reports on novel ways of getting mileage out of specialist corpora, and collectively the contributions attest to the rude health of computerized corpus linguistic studies.

Recent Advances and Historical Development of Vector Optimization

New Advances in Gastrointestinal Motility Research

Recent Advances in Liquid Crystalline Polymers

Bibliographic Guide to Conference Publications

Since 1987, the most recent issues on tonsils and mucosal immunity have been discussed regularly at the 'International Symposia on Tonsils and Mucosal Barriers of the Upper Airways' (ISTMB). This book is a summary of the topics presented during the 7th ISTMB covering both basic and clinical research on tonsils and upper airways. Presented are issues such as immunology and mucosal defense systems, bacteriology and virology, mucosal vaccine for upper airway infections, MALT, NALT and LALT, clinical manifests and pathogenesis of tonsil-related diseases such as IgA nephropathy, palmoplantall pustulosis, reactive arthritis diseases, and more related disorders. Further contributions reflect the association of tonsils with otitis media, allergic diseases in the upper airways, obstructive sleep apnea syndrome, and medical and surgical treatments for tonsil diseases. Otolaryngologists, pediatricians and immunologists who seek to unravel the mystery of the tonsil will find this volume of great assistance on their way to accomplish this task.

Proceedings of the Symposium on Recent Advances in the Chemistry and Physics of Fullerenes and Related Materials

This book is a selection of studies presented at the 33rd International Conference of the International Computer Archive of Modern and Medieval English (ICAME), hosted by the University of Leuven (30 May - 3 June 2012). The strictly refereed and extensively revised contributions collected here represent recent advances in corpus linguistics, both in the development of specialist corpora and in ways of exploiting them for specific purposes. The first part focuses on "Corpus development and corpus interrogation" and features papers on the compilation of new, highly specialized corpora which aim to fill gaps in historical databases, and on new ways of extracting relevant patterns automatically from computerized datasets. The second part, devoted to "Specialist corpora", presents detailed descriptive studies on grammatical patterns in World Englishes, on neology, and - using a contrastive approach - on prepositions and cohesive conjunctions. The third and final part on "Second language acquisition" groups together studies situated at the intersection of corpus linguistics and educational linguistics and dealing with markers of relevance and lesser relevance in lectures, deceptive cognates, the automatic annotation of native and non-native uses of demonstrative this and that, and measuring learners' progress in speech and in writing. Each contribution in its own way reports on novel ways of getting mileage out of specialist corpora, and collectively the contributions attest to the rude health of computerized corpus linguistic studies.

Computed Tomography Imaging in 2012, An Issue of Cardiology Clinics

Research into gastrointestinal motility has received renewed interest in part due to recent advances in the techniques for measuring the structure and function of gastrointestinal cells, tissue and organs. The integration of this wealth of data into biophysically based computation models can aid in interpretation of experimental and clinical measurements and the refinement of measurement techniques. The contents of this book span multiple scales - from cell, tissue, organ, to whole body and is divided into four broad sections covering: i) gastrointestinal cellular activity and tissue structure; (ii) techniques for measuring, analyzing and visualizing high-resolution extra-cellular recordings; (iii) methods for sensing gastroelectrical activity using non-invasive bio-electro-magnetic fields and for modulating the underlying gastric electrical activity and finally (iv) methods for assessing manometric and videographic motility patterns and the application of these data for predicting the flow and mixing behavior of luminal contents by using computational fluid dynamic techniques. This book aims to provide both an overview of historical and existing research techniques as well as to highlight future directions and challenges for the community as a whole. It will be suitable for clinicians to understand the cellular and biophysical underpinnings of gastric emptying, gastroenterologists, surgeons, bioengineers and all scientists with interests in gastrointestinal motility research.

Recent Advances in Physical and Inorganic Chemistry

Science Abstracts

Advances in Child Development and Behavior

This book offers a wealth of information to anyone seeking a survey of the state of the hydrologic modeling discipline in the research community in the late 1980s. The book is an excellent source of information for students seeking topics that may prove worthy of further research and study. Practitioners of hydrology would also benefit from exposure to the activities at the leading edge of their field of interest. It also serves as a means of introducing people to aspects of hydrology that are outside their editors are to be commended for their efforts in presenting this material to the hydrologic community.' Bulletin American meteorological Society 73:12 1992

Recent Advances and Future Directions in Trauma Care, An Issue of Surgical Clinics - E-Book

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This book contains state-of-the-art review articles on specific research areas in the civil engineering discipline-the areas include geotechnical engineering, hydraulics and water resources engineering, and structural engineering. The articles are written by invited authors who are currently active at the international level in their respective research fields.

QCD as a Theory of Hadrons

The purpose of this book is to present the main metaheuristics and approximate and stochastic methods for optimization of complex systems in Engineering Sciences. It has been written within the framework of the European Union project ERRIC (Empowering Romanian Research on Intelligent Information Technologies), which is funded by the EU's FP7 Research Potential program and has been developed in co-operation between French and Romanian teaching researchers. Through the principles of various proposed algorithms (with additional references) this book allows the reader to explore various methods of implementation such as metaheuristics, local search and population based methods. It examines multi-objective and stochastic optimization, as well as methods and tools for computer-aided decision-making and simulation for decision-making.

Recent Advances in Tonsils and Mucosal Barriers of the Upper Airways

The Index provides a broad coverage and access to book reviews in the general social sciences, humanities, sciences, and fine arts, as well as general interest magazines and includes journals from Great Britain, Canada, Switzerland, Israel and Australia. In addition, it indexes several journals that, while published in the US, concentrate on reviewing foreign published or foreign language books. These include Hispania, French Review, German Quarterly and World Literature Today.

Directory of Published Proceedings

This book covers recent advances for quantitative researchers with practical examples from the social sciences. It provides essential information on important issues such as tourism, geography, history, sociology, politics, economy and sport sciences. Each chapter offers a comprehensive range of practical ideas and examples, and all topics are covered by an expert in the field in question. This volume will enable readers to realize that what they see as specific to their own discipline is, in fact, common to several different fields.

Recent Advances in Theistic Philosophy of Religion

Recent Advances in Nutrigenetics and Nutrigenomics

The accumulation of archaeal genomes has lagged significantly behind the Bacteria; however, in the last several years the coverage of the major phyla of Archaea has been significantly improved. There are now multiple genomes in several important genera such as *Pyrobaculum*, *Sulfolobus*, *Thermococcus/Pyrococcus*, *Halobacterium*, *Methanosarcina*, *Methanopyrus* and *Methanocaldococcus*. Comparative genomic studies are now under way, and in many cases there are several consortial multilaboratory groups, such as the SulfoSys community, which have started to break into new systems biology initiatives. At the same time, access to streamlined genetic approaches in the genera *Sulfolobus*, *Thermococcus*, *Methanosarcina*, and *Halobacterium/Haloferax* has improved significantly and is leveraging the genomic information in the Archaea. The result has been that genome-driven studies of metabolism, DNA replication and repair, transcription and translation, and posttranslational processing have become more detailed and that basic research findings are burgeoning. The areas of global gene regulation, the roles of small RNAs and mechanisms of transcription and DNA replication will be focus areas in the guidelines of this Research Topic. Recently, insights into the unique characteristics of archaeal transcription and the ability to study the effects of mutation in vivo following knock-in gene replacement have resulted in incisive findings.

Recent Advances in Maintenance and Infrastructure Management

An important review on trauma for the general surgeon! Topics include spectrum of TBI from mild to severe, management of complex extremity injuries, long-range ICU transport, advanced technologies in trauma/CC management, non-compressible torso hemorrhage, trauma system configurations in other countries, graduate medical education in trauma/CC and acute care surgery, improving care in the trauma ICU, damage control surgery, massive transfusion and damage control resuscitation, burn/electrical/environmental injury resuscitation, pre-hospital management and tactical combat casualty care, research and analytics in trauma care, verification and regionalization of trauma systems, and more!

Recent Advances in Structural Engineering

' The aim of the book is to report the recent research development of ancient glass and glazing technology and the historical-cultural exchange of the East and West along the Silk and Steppe Roads. The contents of this book are dedicated to promote the exchanges between researchers in both social and scientific fields. The scope of this book includes the new archaeological findings of ancient glass and faience in the world, the relationship of glassmaking with glazing technology, the development and application of modern techniques used for the characterization of ancient glass and glaze, compound colorants/opacifiers among ancient glass, the early exchanges of culture and techniques used between China and

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elsewhere along the Silk and Steppe Roads, and so on. Contents: The Ancient Glass Road: The Cultural and Technical Exchange of Chinese Glass and Faience with Outside China before the Han Dynasty (200 B.C.) (Fuxi Gan) Glass Provenance along the Silk Road: The Use of Trace Element Analysis (J Henderson, S Chenery, J Kröger and E W Faber) Travels of Glass Vessels along the Maritime Silk Road (Brigitte Borell) Chemical Composition of Glass Beads Excavated from Kofun (ca. AD 2nd to 7th c.) in Western Japan by Portable XRF Showing Glass Trade among Asian Countries (Izumi Nakai and Junko Shirataki) Potash Glass: A View from South and Southeast Asia (Laure Dussubieux) Archaeological and Technical Study of Western Han Dynasty Lead Barium Glass Chimes (Bian Qing) Unearthed from the Jiangdu King's Mausoleum (Qinghui Li, Zebin Li and Donghong Gu) Study of Byodoin Temple Glass: Discoveries in Japan of Small, Free-Blown Glass Vessels with Lids from the Byodoin Temple and Other Sites from the Heian Period (794–1192) (Akiko Inoue, Junko Shirataki and Izumi Nakai) Chemical Analysis of Tang Dynasty Glass Vessels Unearthed from the Underground Palace of the Famen Temple Using a Portable XRF Spectrometer (Qinghui Li, Jie Jiang, Xinling Li, Song Liu, Donghong Gu, Julian Henderson and Junqing Dong) Chemical and Lead Isotope Analysis of Glass Wares Found in Lijiaba Site, Yunyang County, Chongqing City (Jianfeng Cui, Deyun Zhao, Wei Huang and Yuanhong He) Scientific Analysis of a Glass Vessel and an Eye Bead from the Zhagunluke and the Shanpula Sites from the Overland Southern Line of the Silk Road (Qian Cheng, Jinlong Guo, Bo Wang and Jianfeng Cui) Early Byzantine Glass Supply and Consumption: The Case of Dichin, Bulgaria (Thomas Smith, Julian Henderson and Edward W Faber) Glass Corrosion: Issues and Approaches for Archaeological Science (Nikolaos Zacharias and Eleni Palamara) Raman Identification of Glassy Matrices in Ancient Glasses from China (Hongxia Zhao and Qinghui Li) Scientific Analysis of Ancient Glass: Answering the Questions and Questioning the Answers (J W Lankton, B Gratuze, K Tantrakarn, Q H Li and S Liu) Scientific Research on the Earliest Chinese Glazed Pottery (Junqing Dong, Fuxi Gan, Xiaowei Xia, Qinghui Li, Song Liu and Donghong Gu) A Study of the Diverse Origins and Primary Development of Chinese High Temperature Porcelain Glazes (Juan Wu, Maolin Zhang, Junming Wu, Qijiang Li, Jiazhi Li and Zequn Deng) Tracing the Origin and Evolution of White Porcelain in Ancient China (Weidong Li, Xiaoke Lu, Hongjie Luo, Zhiwen Zhao and Xinmin Sun) A New Method of Identifying the Flux in Ancient Chinese High Fired Glaze — Sr Isotopic Composition Analysis (Hongjiao Ma, Julian Henderson and Jane Evans) Research on Glaze-Coloring Mechanism of the Light Sky-blue Series of Ancient Jun Guan Porcelains using Modern Analysis Techniques (Guoxia Li, H W Sun, R W Li, X L Zhang, W J Zhao, W J Zhao, Y Yang, W Li and M M Cai) Preliminary Studies Based on the Chemical Analysis of Colorful Glazed Pottery Unearthed from Tombs of Yue State at Hongshan Site (Xiaowei Xia, Qing Wang, Qinghui Li, Song Liu and Donghong Gu) Characterization of the Ancient Glaze Used in Different Types of Ceramics from the Huangye Kiln Site in Gongyi County Using OCT Technique (Junqing Dong, Xin Yan, Qinghui Li, Musen Guo and Yongqing Hu) Chemical Analysis of Ceramics Unearthed from the Huangye Kiln Site in Henan Province Using a Portable XRF Spectrometer (Song Liu, Yongqing Hu, Musen Guo, Dong Junqing and Qinghui Li) Microstructure and Composition of Ancient Chinese Octagonal Sticks from the Warring States Period (475–221 B.C.) (Qinglin Ma, Zhiguo Zhang, David A Scott, Heinz Berke and Detlef Günther) Chinese Blue and Chinese Purple in Copper Tinted Lead Barium Glass Produced During Firing Experiments (Ying Qin, Shicai Li, Xi Chen and Huang Huang) A Study of Simulation of the Production Technology of Ancient Chinese Blue and Purple Faience During the Warring States, Qin and

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Han Dynasties (Mo Li, Julin Wang and Qinglin Ma) Production Technology of Faience Beads from Peng State Cemetery, Shanxi Province, China (Zhou Gu, Jian Zhu, Yaoting Xie, Tiqiao Xiao, Changsui Wang and Yimin Yang) Scientific Analysis of Natural Glasses (Fuxi Gan Hongxia Zhao and Zhenqi Xu) Readership: Student and professional. Key Features: This book presents the recent research results through interdisciplinary collaboration in the field of ancient glass and glaze. The contributors from different countries are all the active researchers in relative fields. The carefully presented details of this book will be of great value to the understanding of the role of ancient glass and glaze in the development of human civilizations. Keywords: Archaeology; Archaeometry; Ancient; Glass; Glaze; Multidisciplinary; Research on Glassmaking; Silk Road; Modern Techniques'

An Introduction to the Study of Electrical Engineering

This volume of Progress in Molecular Biology and Translational Science covers the recent advances in the expanding fields of nutrigenetics and nutrigenomics. Forty authors from eight countries have contributed to the publication, representing the most cutting-edge research available. Covers recent advances in nutrigenetics and nutrigenomics Distinguished panel of 40 authors from eight different countries

Recent Advances in Corpus Linguistics

In vector optimization one investigates optimization problems in an abstract setting which have a not necessarily real-valued objective function. This scientific discipline is closely related to multi-objective optimization and multi-criteria decision making. This book contains refereed contributions to the "International Conference on Vector Optimization" held at the Technical University of Darmstadt from August 4-7, 1986. This meeting was an interdisciplinary forum devoted to new results in the theory, to applications as well as to the solution of vector optimization problems which are relevant in practice. Because of the great variety of topics covered by the contributions, the 25 articles of this volume are organized in different sections: Historical retrospect, mathematical theory, goal setting and decision making, engineering applications, and related topics. The papers of the invited State-of-the-Art Tutorials given by Professors J.M. Borwein, H. Eschenauer, W. Stadler and P.L. Yu are also included.

Recent advances in genomic and genetic studies in the Archaea

This book provides a pedagogical introduction to the perturbative and non-perturbative aspects of quantum chromodynamics (QCD). Introducing the basic theory and recent advances in QCD, it also reviews the historical development of the subject, covering pre-QCD ideas of strong interactions such as the quark and parton models, the notion

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of colours and the S-matrix approach. The author then discusses gauge theory, techniques of dimensional regularization and renormalization, deep inelastic scattering and hard processes in hadron collisions, hadron jets and e+e- annihilations. Other topics include power corrections and the technologies of the Shifman-Vainshtein-Zakharov operating product expansion. The final parts of the book are devoted to modern non-perturbative approaches to QCD and the phenomenological aspects of QCD spectral sum rules. The book will be a valuable reference for graduate students and researchers in high-energy particle and nuclear physics, both theoretical and experimental.

Recent Advances in Corpus Linguistics

"A bold and successful attempt to illustrate the theoretical foundations of all of the subdisciplines of ecology, including basic and applied, and extending through biophysical, population, community, and ecosystem ecology. Encyclopedia of Theoretical Ecology is a compendium of clear and concise essays by the intellectual leaders across this vast breadth of knowledge."--Harold Mooney, Stanford University "A remarkable and indispensable reference work that also is flexible enough to provide essential readings for a wide variety of courses. A masterful collection of authoritative papers that convey the rich and fundamental nature of modern theoretical ecology."--Simon A. Levin, Princeton University "Theoretical ecologists exercise their imaginations to make sense of the astounding complexity of both real and possible ecosystems. Imagining a real or possible topic left out of the Encyclopedia of Theoretical Ecology has proven just as challenging. This comprehensive compendium demonstrates that theoretical ecology has become a mature science, and the volume will serve as the foundation for future creativity in this area."--Fred Adler, University of Utah "The editors have assembled an outstanding group of contributors who are a great match for their topics. Sometimes the author is a key, authoritative figure in a field; and at other times, the author has enough distance to convey all sides of a subject. The next time you need to introduce ecology students to a theoretical topic, you'll be glad to have this encyclopedia on your bookshelf."--Stephen Ellner, Cornell University "Everything you wanted to know about theoretical ecology, and much that you didn't know you needed to know but will now! Alan Hastings and Louis Gross have done us a great service by bringing together in very accessible form a huge amount of information about a broad, complicated, and expanding field."--Daniel Simberloff, University of Tennessee, Knoxville

Recent Advances in Organic Chemistry

Recent Advances in Metrology and Fundamental Constants

Encyclopedia of Theoretical Ecology

Nature endows us with a treasure chest of Green Gold full of amazing 'redox-active' substances which interfere with numerous biological processes in our own body, in animals, bacteria, fungi and plants. Whilst such natural products are all around and also in us, we still do not fully understand how these compounds actually work. This book attempts to resolve some of the mysteries and riddles associated with such products. Written by more than thirty international experts from academia and industry, it places a focus on modern developments in this field and considers such natural products from various angles, from their isolation and characterization all along to product development and commercialization. Throughout, the reader will be confronted with modern approaches which enable the efficient identification and isolation of new natural products, help to elucidate their mode(s) of action and permit practical uses in Medicine, Cosmetics, Agriculture, Industry and as functional foods.

Cognitive Science: Recent Advances and Recurring Problems

Recent Advances in the Scientific Research on Ancient Glass and Glaze

This volume contains an eclectic collection of 22 papers on liquid crystalline polymers presented at the Sixth Polymer Workshop, in the series sponsored by the European Science Foundation, entitled: 'Liquid Crystal Polymer Systems', in Gentofte, Denmark, 12-14 September 1983. Since a contribution to this volume was strictly voluntary, and in some cases represents a considerably expanded version of that which was presented, it is strictly speaking not correct to term this a 'proceedings'. A description of the aims and purposes of the European Science Foundation with respect to the polymer area has been presented in: Shell Polymers, Vol. 5, No.2, pp. 34-35, 1981. The papers given here represent a cross-section of current research interests in liquid crystalline polymers in the areas of theory, synthesis, characterization, structure-property relationships and applications. At least some of the current interest is motivated by attempts to practically exploit the novel properties of these materials in the developing technologies of high strength fibres and advanced materials for constructional purposes, but also for functional materials in the areas of information retrieval, electronics and optoelectronics applications. The editor wishes to thank all those involved for their courtesy and co-operation.

Recent Advances in Flowering Time Control

Scientific Frontiers in Developmental Toxicology and Risk Assessment reviews advances made during the last 10-15 years in fields such as developmental biology, molecular biology, and genetics. It describes a novel approach for how these

advances might be used in combination with existing methodologies to further the understanding of mechanisms of developmental toxicity, to improve the assessment of chemicals for their ability to cause developmental toxicity, and to improve risk assessment for developmental defects. For example, based on the recent advances, even the smallest, simplest laboratory animals such as the fruit fly, roundworm, and zebrafish might be able to serve as developmental toxicological models for human biological systems. Use of such organisms might allow for rapid and inexpensive testing of large numbers of chemicals for their potential to cause developmental toxicity; presently, there are little or no developmental toxicity data available for the majority of natural and manufactured chemicals in use. This new approach to developmental toxicology and risk assessment will require simultaneous research on several fronts by experts from multiple scientific disciplines, including developmental toxicologists, developmental biologists, geneticists, epidemiologists, and biostatisticians.

Scientific Frontiers in Developmental Toxicology and Risk Assessment

TRENDS IN LINGUISTICS is a series of books that open new perspectives in our understanding of language. The series publishes state-of-the-art work on core areas of linguistics across theoretical frameworks as well as studies that provide new insights by building bridges to neighbouring fields such as neuroscience and cognitive science. TRENDS IN LINGUISTICS considers itself a forum for cutting-edge research based on solid empirical data on language in its various manifestations, including sign languages. It regards linguistic variation in its synchronic and diachronic dimensions as well as in its social contexts as important sources of insight for a better understanding of the design of linguistic systems and the ecology and evolution of language. TRENDS IN LINGUISTICS publishes monographs and outstanding dissertations as well as edited volumes, which provide the opportunity to address controversial topics from different empirical and theoretical viewpoints. High quality standards are ensured through anonymous reviewing.

Historical Development of Auxiliaries

The Historical Development of Quantum Theory

The onset of flowering is an important step during the lifetime of a flowering plant. During the past two decades, there has been enormous progress in our understanding of how internal and external (environmental) cues control the transition to reproductive growth in plants. Many flowering time regulators have been identified from the model plant *Arabidopsis thaliana*. Most of them are assembled in regulatory pathways, which converge to central integrators which trigger the transition of the vegetative into an inflorescence meristem. For crop cultivation, the time of flowering is of utmost

importance, because it determines yield. Phenotypic variation for this trait is largely controlled by genes, which were often modified during domestication or crop improvement. Understanding the genetic basis of flowering time regulation offers new opportunities for selection in plant breeding and for genome editing and genetic modification of crop species.

Book Review Index 1989 Cumulation

Over the last decade of the 20th century, many improvements took place in the field of metrology and fundamental constants. These developments and improvements are discussed in this book. The old caesium SI second definition has found a new realization with the fountain approach, replacing the classical thermal atomic beam. The use of cold atom techniques, slowed down and cooled, has opened a number of unexpected avenues for metrology and fundamental constants, one of these possibilities being the atom interferometry. Another development was the demonstration of the possibility of performing a direct frequency division in the visible, using short femtosecond pulses. Many other developments are also discussed.

Recent Advances in Redox Active Plant and Microbial Products

This collection is inspired by the coming retirement of Professor Wolfram Elsner. It presents cutting-edge economic research relevant to economic policies and policy-making, placing a strong focus on innovative perspectives. In a changing world that has been shaken by economic, social, financial, and ecological crises, it becomes increasingly clear that new approaches to economics are needed for both theoretical and empirical research; for applied economics as well as policy advice. At this point, it seems necessary to develop new methods, to reconsider theoretical foundations and especially to take into account the theoretical alternatives that have been advocated within the field of economics for many years. This collection seeks to accomplish this by including institutionalist, evolutionary, complexity, and other innovative perspectives. It thereby creates a unique selection of methodological and empirical approaches ranging from game theory to economic dynamics to empirical and historical-theoretical analyses. The interested reader will find careful reconsiderations of the historical development of institutional and evolutionary theories, enlightening theoretical contributions, interdisciplinary ideas, as well as insightful applications. The collection serves to highlight the common ground and the synergies between the various approaches and thereby to contribute to an emerging coherent framework of alternative theories in economics. This book is of interest to those who study political economy, economic theory and philosophy, as well as economic policy.

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