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*Inorganic Microbial Sulfur Metabolism* Jul 31 2022 This volume presents methods related to the role of anaerobic dissimilatory cycles and sulfur metabolism. Sulfate Transport Dissimilatory Sulfate Metabolism Dehydrogenases Hydrogenases from sulfate-reducing bacteria Electron carrier protein sulfate-reducing bacteria Terminal reductases of sulfate-reducing bacteria molecular biology Dissimilatory sulfur reduction Oxidation of reduction compounds Metabolism of polythionates Special techniques

**Springer Handbook of Atmospheric Measurements** Jul 11 2023 This practical handbook provides a clearly structured, concise and comprehensive account of the huge variety of atmospheric and related measurements relevant to meteorologists and for the purpose of weather forecasting and climate research, but also to the practitioner in the wider field of environmental physics and ecology. The Springer Handbook of Atmospheric Measurements is divided into six parts: The first part offers instructive descriptions of the basics of atmospheric measurements and the multitude of their influencing

factors, fundamentals of quality control and standardization, as well as equations and tables of atmospheric, water, and soil quantities. The subsequent parts present classical in-situ measurements as well as remote sensing techniques from both ground-based as well as airborne or satellite-based methods. The next part focusses on complex measurements and methods that integrate different techniques to establish more holistic data. Brief discussions of measurements in soils and water, at plants, in urban and rural environments and for renewable energies demonstrate the potential of such applications. The final part provides an overview of atmospheric and ecological networks. Written by distinguished experts from academia and industry, each of the 64 chapters provides in-depth discussions of the available devices with their specifications, aspects of quality control, maintenance as well as their potential for the future. A large number of thoroughly compiled tables of physical quantities, sensors and system characteristics make this handbook a unique, universal and useful reference for the practitioner and absolutely essential for researchers, students, and technicians.

**Enterprise and Organizational Modeling and Simulation** Apr 15 2021  
This book constitutes the refereed proceedings of the 12th International Workshop on Enterprise and Organizational Modeling and Simulation, EOMAS 2016, held in Ljubljana, Slovenia, in June 2016. The 12 full papers presented in this volume were carefully reviewed and selected from 26 submissions. They were organized in topical sections on formal approaches and human-centric approaches.

**Arrival Cities** Jun 29 2022  
Exile and migration played a critical role in the diffusion and development of modernism around the globe, yet have long remained largely understudied phenomena within art historiography. Focusing on the intersections of exile, artistic practice and urban space, this volume brings together contributions by international researchers committed to revising the historiography of modern art. It pays particular attention to metropolitan areas that were settled by migrant artists in the first half of the 20th century. These arrival cities developed into hubs of artistic activities and transcultural contact zones where ideas circulated, collaborations emerged, and concepts developed. Taking six major cities as a starting point – Bombay (now Mumbai), Buenos Aires, Istanbul, London, New York, and Shanghai –the authors explore how urban topographies and landscapes were modified by exiled artists re-establishing their practices in metropolises across the world. Questioning the established canon of Western modernism, *Arrival Cities* investigates how the migration of artists to different urban spaces impacted their work and the historiography of art. In doing so, it aims to encourage the discussion between international scholars from different research fields, such as exile studies, art history, social history, architectural history, architecture, and

urban studies.

**Low-Power CMOS Wireless Communications** Dec 24 2021 Low-Power CMOS Wireless Communications: A Wideband CDMA System Design focuses on the issues behind the development of a high-bandwidth, silicon complementary metal-oxide silicon (CMOS) low-power transceiver system for mobile RF wireless data communications. In the design of any RF communications system, three distinct factors must be considered: the propagation environment in question, the multiplexing and modulation of user data streams, and the complexity of hardware required to implement the desired link. None of these can be allowed to dominate. Coupling between system design and implementation is the key to simultaneously achieving high bandwidth and low power and is emphasized throughout the book. The material presented in Low-Power CMOS Wireless Communications: A Wideband CDMA System Design is the result of broadband wireless systems research done at the University of California, Berkeley. The wireless development was motivated by a much larger collaborative effort known as the Infopad Project, which was centered on developing a mobile information terminal for multimedia content - a wireless 'network computer'. The desire for mobility, combined with the need to support potentially hundreds of users simultaneously accessing full-motion digital video, demanded a wireless solution that was of far lower power and higher data rate than could be provided by existing systems. That solution is the topic of this book: a case study of not only wireless systems designs, but also the implementation of such a link, down to the analog and digital circuit level.

*Digital Soil Mapping* Sep 20 2021 The book compiles the main ideas and methodologies that have been proposed and tested within these last fifteen years in the field of Digital Soil Mapping (DSM). Beginning with current experiences of soil information system developments in various regions of the world, this volume presents states of the art of different topics covered by DSM: Conception and handling of soil databases, sampling methods, new soil spatial covariates, Quantitative spatial modelling, Quality assessment and representation of DSM outputs. This book provides a solid support to students, researchers and engineers interested in modernising soil survey approaches with numerical techniques. It is also of great interest for potential soil data users. \* A new concept to meet the worldwide demand for spatial soil data \* The first compilation of ideas and methodologies of Digital Soil Mapping \* Offers a variety of specialities: soil surveying, geostatistics, data mining, fuzzy logic, remote sensing techniques, Geographical Information Science, ...\* Written by 82 researchers from 13 different countries

Molecular Basis of Memory Apr 20 2024 This special volume of Progress in Molecular Biology and Translational Science provides a current overview of how memory is processed in the brain. A broad

range of topics are presented by leaders in the field, ranging from brain circuitry to synaptic plasticity to the molecular machinery that contributes to the brain's ability to maintain information across time. Memory systems in the prefrontal cortex, hippocampus and amygdala are considered as well. In addition, the volume covers recent contributions to our understanding of memory from in vivo imaging, optogenetic, electrophysiological, biochemical and molecular biological studies. Articles from world renowned experts in memory covering topics from signaling, epigenetic, RNA translation to plasticity. Methodological approaches include molecular and cellular, behavioral, electrophysiological, optogenetic and functional imaging.

**Critical Zones** Mar 27 2022 Artists and writers portray the disorientation of a world facing climate change. This monumental volume, drawn from a 2020 exhibition at the ZKM Center for Art and Media, portrays the disorientation of life in world facing climate change. It traces this disorientation to the disconnection between two different definitions of the land on which modernizing humans live: the sovereign nation from which they derive their rights, and another one, hidden, from which they gain their wealth—the land they live on, and the land they live from. Charting the land they will inhabit, they find not a globe, not the iconic “blue marble,” but a series of critical zones—patchy, heterogenous, discontinuous. With short pieces, longer essays, and more than 500 illustrations, the contributors explore the new landscape on which it may be possible for humans to land—what it means to be “on Earth,” whether the critical zone, the Gaia, or the terrestrial. They consider geopolitical conflicts and tools redesigned for the new “geopolitics of life forms.” The “thought exhibition” described in this book can open a fictional space to explore the new climate regime; the rest of the story is unknown. Contributors include Dipesh Chakrabarty, Pierre Charbonnier, Emanuele Coccia, Vinciane Despret, Jérôme Gaillarde, Donna Haraway, Joseph Leo Koerner, Timothy Lenton, Richard Powers, Simon Schaffer, Isabelle Stengers, Bronislaw Szerszynski, Jan A. Zalasiewicz, Siegfried Zielinski Copublished with ZKM | Center for Art and Media Karlsruhe

*Sony Blue-ray disc DVD Player* Jun 22 2024

*Large-Scale Ecology: Model Systems to Global Perspectives* Apr 08 2023 *Advances in Ecological Research* is one of the most successful series in the highly competitive field of ecology. This thematic volume focuses on large scale ecology, publishing important reviews that contribute to our understanding of the field. Presents the most updated information on the field of large scale ecology, publishing topical and important reviews. Provides all information that relates to a thorough understanding of the field. Includes data on physiology, populations, and communities of plants and animals.

**From Memory to Marble** Oct 22 2021 For the first time, the 92-metre

frieze of the Voortrekker Monument in Pretoria, one of the largest historical narratives in marble, has been made the subject of a book. The pictorial narrative of the Boer pioneers who conquered South Africa's interior during the 'Great Trek' (1835-52) represents a crucial period of South Africa's past. Conceptualising the frieze both reflected on and contributed to the country's socio-political debates in the 1930s and 1940s when it was made. The book considers the active role the Monument played in the rise of Afrikaner nationalism and the development of apartheid, as well as its place in post-apartheid heritage. The frieze is unique in that it provides rare evidence of the complex processes followed in creating a major monument. Based on unpublished documents, drawings and models, these processes are unfolded step by step, from the earliest discussions of the purpose and content of the frieze, through all the stages of its design, to its shipping to post-war Italy to be copied into marble from Monte Altissimo, up to its final installation in the Monument. The book examines how visual representation transforms historical memory in what it chooses to recount, and the forms in which it is depicted. The second volume expands on the first, by investigating each of the twenty-seven scenes of the frieze in depth, providing new insights into not only the frieze, but also South Africa's history. François van Schalkwyk of African Minds, co-publisher with De Gruyter writes: *From Memory to Marble* is an open access monograph in the true sense of the word. Both volumes of the digital version of the book are available in full and free of charge from the date of publication. This approach to publishing democratises access to the latest scholarly publications across the globe. At the same time, a book such as *From Memory to Marble*, with its unique and exquisite photographs of the frieze as well as its wealth of reproduced archival materials, demands reception of a more traditional kind, that is, on the printed page. For this reason, the book is likewise available in print as two separate volumes. The printed and digital books should not be seen as separate incarnations; each brings its own advantages, working together to extend the reach and utility of *From Memory to Marble* to a range of interested readers.

Jake's Tower Mar 19 2024 'It's good that I've found this secret place . . . No one can get to to me up there. It's totally safe.' In real life, Jake is never safe. He lives in constant fear of his mother's violent boyfriend. But in his imaginary tower he can dream up his own father - the stranger who gave him a cuddle and a fluffy duck the day he was born and went away for ever. Jake doesn't believe dreams ever come true. But sometimes they do - in strange and surprising ways. Shortlisted for the Carnegie Medal, *Jake's Tower* by Elizabeth Laird is a powerful and moving novel that spotlights the issue of domestic abuse.

*WKW: The Cinema of Wong Kar Wai* May 21 2024 The long-awaited

retrospective from the internationally renowned film director celebrated for his visually lush and atmospheric films. Wong Kar Wai is known for his romantic and stylish films that explore—in saturated, cinematic scenes—themes of love, longing, and the burden of memory. His style reveals a fascination with mood and texture, and a sense of place figures prominently. In this volume, the first on his entire body of work, Wong Kar Wai and writer John Powers explore Wong's complete oeuvre in the locations of some of his most famous scenes. The book is structured as six conversations between Powers and Wong (each in a different locale), including the restaurant where he shot *In the Mood for Love* and the snack bar where he shot *Chungking Express*. Discussing each of Wong's eleven films, the conversations also explore Wong's trademark themes of time, nostalgia, and beauty, and their roots in his personal life. This first book by Wong Kar Wai, lavishly illustrated with more than 250 photographs and film stills and featuring an opening critical essay by Powers, *WKW: The Cinema of Wong Kar Wei* is as evocative as walking into one of Wong's lush films.

#### **Electronic Devices and Amplifier Circuits with MATLAB Applications**

Aug 12 2023 This book is an undergraduate level textbook. The prerequisites for this text are first year calculus and physics, and a two-semester course in circuit analysis including the fundamental theorems and the Laplace transformation. This text begins with an introduction to the nature of small signals used in electronic devices, amplifiers, definitions of decibels, bandwidth, poles and zeros, stability, transfer functions, and Bode plots. It continues with an introduction to solid state electronics, bipolar junction transistors, FETs op amps, integrated devices used in logic circuits, and their internal construction. It concludes with a discussion on amplifier circuits. A supplementary text to this title is our *Digital Circuit Analysis & Design with an Introduction to CPLDs and FPGAs*, ISBN 0-9744239-5-5. For additional information contact the publisher at [info@orchardpublications.com](mailto:info@orchardpublications.com)

#### **Creolization and Pidginization in Contexts of Postcolonial Diversity**

Feb 23 2022 Creolization and pidginization are conceptualized and investigated as specific social processes in the course of which new common languages, socio-cultural practices and identifications are developed in contexts of postcolonial diversity shaped by distinct social, historical and local conditions.

*Re-writing Pasts, Imagining Futures* Oct 02 2022 The papers in this volume focus on fiction and theatre in their traditional forms as well as in their encounters with novel and innovative forms and avenues of dissemination. As a cultural practice that emerged from a process of protest and contestation of hegemony, it is understandable that one main concern in African literature and literary criticism is the resistance against the emergence of marginalizing centers in

formerly or currently marginalized societies with regard to discourses, aesthetics and media of creation. These new centers that sometimes undermine the strategic/tactical exploitation of the relative advantage procured by each medium run the risk of leading to new forms of stratification that mitigate the import of African and African diasporic literatures. The collection of essays therefore seeks to analyze the representation of pertinent socio-political and historical questions in a variety of postcolonial texts from Africa and the African diasporas, notably the Caribbean islands and the United States of America. However, far from re-writing of history in a way that cedes to conservative worldviews, creative writers and critics simultaneously attempt to chart ways forward for socially all-inclusive futures. In the context of colonial and neo-colonial legacies that seem to forestall any sense of individual and collective self-fulfillment, contributors to this volume examine the pertinence of African fiction and theatre in imagining new vistas of re-conceptualizing the postcolonial condition in ways that re-galvanize the belief in an enabling future.

*Revolutionizing a World* Jan 25 2022 This book investigates the long-term continuity of large-scale states and empires, and its effect on the Near East's social fabric, including the fundamental changes that occurred to major social institutions. Its geographical coverage spans, from east to west, modern-day Libya and Egypt to Central Asia, and from north to south, Anatolia to southern Arabia, incorporating modern-day Oman and Yemen. Its temporal coverage spans from the late eighth century BCE to the seventh century CE during the rise of Islam and collapse of the Sasanian Empire. The authors argue that the persistence of large states and empires starting in the eighth/seventh centuries BCE, which continued for many centuries, led to new socio-political structures and institutions emerging in the Near East. The primary processes that enabled this emergence were large-scale and long-distance movements, or population migrations. These patterns of social developments are analysed under different aspects: settlement patterns, urban structure, material culture, trade, governance, language spread and religion, all pointing at movement as the main catalyst for social change. This book's argument is framed within a larger theoretical framework termed as 'universalism', a theory that explains many of the social transformations that happened to societies in the Near East, starting from the Neo-Assyrian period and continuing for centuries. Among other influences, the effects of these transformations are today manifested in modern languages, concepts of government, universal religions and monetized and globalized economies.

**Energy Technology 2019** Jan 05 2023 This collection addresses the need for sustainable technologies with reduced energy consumption and pollutants and the development and application of alternative

sustainable energy to maintain a green environment and energy supply. Contributions focus on energy-efficient technologies including innovative ore beneficiation, smelting technologies, and recycling and waste heat recovery, as well as emerging novel energy technologies. Papers also cover various technological aspects of sustainable energy ecosystems, processes that improve energy efficiency, reduce thermal emissions, and reduce carbon dioxide and other greenhouse emissions. Papers from the following symposia are presented in the book: Energy Technologies and Carbon Dioxide Management Solar Cell Silicon Advanced Materials for Energy Conversion and Storage

*Whitney Biennial 2022* Jan 17 2024 Presenting the latest iteration of this crucial exhibition, always a barometer of contemporary American art The 2022 Whitney Biennial is accompanied by this landmark volume. Each of the Biennial's participants is represented by a selected exhibition history, a bibliography, and imagery complemented by a personal statement or interview that foregrounds the artist's own voice. Essays by the curators and other contributors elucidate themes of the exhibition and discuss the participants. The 2022 Biennial's two curators, David Breslin and Adrienne Edwards, are known for their close collaboration with living artists. Coming after several years of seismic upheaval in and beyond the cultural, social, and political landscapes, this catalogue will offer a new take on the storied institution of the Biennial while continuing to serve--as previous editions have--as an invaluable resource on present-day trends in contemporary art in the United States.

Zero-Phonon Lines Sep 13 2023 Lasers are playing a more and more dominant role in modern optical spectroscopy, offering an increased potential for high resolution and, thus, for more detailed spectroscopic information on dynamic and structural parameters. This book on Zero-Phonon Lines and Spectral Hole Burning in Spectroscopy and Photochemistry gives a concise and very useful survey of some of the pioneering and current work on solid state spectroscopy of various groups in the USSR. It focusses on the optical Mossbauer analogue, the "zero-phonon line", and "hole burning" spectroscopy, a method which increases the resolution well beyond the zero-phonon linewidth. In this context, the present work is complementary to Persistent Spectral Hole-Burning: Science and Applications (ed. by W.E. Moerner, Springer, Berlin, Heidelberg 1988), which deals in more detail with the various aspects of laser spectroscopy with ultrahigh spectral resolution. Zero-phonon lines and an understanding of the various phonon coupling mechanisms which are treated in this book are a prerequisite for applying and understanding techniques of ultrahigh resolution such as hole-burning or optical echoes. Bayreuth, March 1988 D. Haarer Preface The investigation of zero-phonon lines (ZPLs) is one of the foremost and most informative



fields of present-day condensed-matter spectroscopy. Along with its definite function in physical cognition and investigation methods, the spectroscopy of ZPLs is also gaining purely practical applications. This is due to the fact that ZPLs are extra-sensitive quantum-mechanical detectors.

Symbolism 2020 Mar 15 2021 Symbolism. An International Annual of Critical Aesthetics is an interdisciplinary, peer-reviewed annual dedicated to pursuing fundamental questions on the forms and functions of the symbolic. Symbolism publishes high-profile research on various topics related to the use of figurative language, thought and signification in artistic expression and constructions of reality. While maintaining a strong literary focus, the annual also enquires into practices of the symbolic across various media.

**Instabilities and Nonequilibrium Structures IV** Dec 04 2022 We have classified the articles presented here in two Sections according to their general content. In Part I we have included papers which deal with statistical mechanics, mathematical aspects of dynamical systems and stochastic effects in nonequilibrium systems. Part II is devoted mainly to instabilities and self-organization in extended nonequilibrium systems. The study of partial differential equations by numerical and analytic methods plays a great role here and many works are related to this subject. Most recent developments in this fascinating and rapidly growing area are discussed. PART I  
STATISTICAL MECHANICS AND RELATED TOPICS NONEQUILIBRIUM POTENTIALS FOR PERIOD DOUBLING R. Graham and A. Hamm Fachbereich Physik, Universitit Gesamthochschule Essen D4300 Essen 1 Germany ABSTRACT. In this lecture we consider the influence of weak stochastic perturbations on period doubling using nonequilibrium potentials, a concept which is explained in section 1 and formulated for the case of maps in section 2. In section 3 nonequilibrium potentials are considered for the family of quadratic maps (a) at the Feigenbaum 'attractor' with Gaussian noise, (b) for more general non Gaussian noise, and (c) for the case of a strange repeller. Our discussion will be informal. A more detailed account of this and related material can be found in our papers [1-3] and in the reviews [4, 5], where further references to related work are also given. 1.

**The Royal Inscriptions of Amēl-Marduk (561-560 BC), Neriglissar (559-556 BC), and Nabonidus (555-539 BC), Kings of Babylon** Feb 11 2021 A complete corpus of the extant royal inscriptions of the Neo-Babylonian kings Amēl-Marduk (561-560 BC), Neriglissar (559-556 BC), and Nabonidus (555-539 BC), who were three of the last native kings of Babylonia before the conquest of Cyrus the Great.

**Digitalization Cases Vol. 2** Jun 10 2023 This book presents a rich compilation of real-world cases on digitalization, aiming to share first-hand insights from renowned organizations and to make digitalization tangible. With all economic and societal sectors being

challenged by emerging technologies, the digital economy is highly volatile, uncertain, complex, and ambiguous. It confronts established organizations with substantial challenges and opportunities. Against this backdrop, this book reports on best practices and lessons learned from organizations that succeeded in tackling the challenges and seizing the opportunities of the digital economy. It illustrates how twenty organizations leveraged their capabilities to create disruptive innovation, to develop digital business models, and to digitally transform themselves. These cases stem from various industries (e.g. automotive, insurance, consulting, and public services) and countries, covering the many facets that digitalization may have. As all case descriptions follow a unified template, they are easily accessible for readers and provide insightful examples for practitioners as well as interesting cases for researchers, teachers, and students. Almost every organization is trying to figure out how best to respond to the opportunities and threats posed by digitalization. This book provides valuable lessons from those organizations that have already begun their digital transformation journey. Michael D. Myers, Professor of Information Systems, University of Auckland Digitalization Cases provides firsthand insights into the efforts of renowned companies. The presented actions, results, and lessons learned are a great inspiration for managers, students, and academics. This book gives real pointers on the how and where to start. Anna Kopp, Head of IT Germany, Microsoft The cases compiled in the second volume of Digitalization Cases show how disruption can actively be managed. Further, long-term insights from extended success stories of the first edition highlight that courage to change pays off well. This book represents a motivation for organizations to drive their digital transformation journeys actively. Markus Richter, State Secretary at the Federal Ministry of the Interior, Building and Community and Federal Government Commissioner for Information Technology, Germany

### **Numerical Analysis Using MATLAB and Spreadsheets** Nov 15 2023

Annotation This text provides complete, clear, and detailed explanations of the principal numerical analysis methods and well known functions used in science and engineering. These are illustrated with many practical examples. With this text the reader learns numerical analysis with many real-world applications, MATLAB, and spreadsheets simultaneously. This text includes the following chapters: Introduction to MATLAB? Root Approximations? Sinusoids and Complex Numbers? Matrices and Determinants? Review of Differential Equations? Fourier, Taylor, and Maclaurin Series? Finite Differences and Interpolation? Linear and Parabolic Regression? Solution of Differential Equations by Numerical Methods? Integration by Numerical Methods? Difference Equations? Partial Fraction Expansion? The Gamma and Beta Functions? Orthogonal Functions and Matrix Factorizations?

Bessel, Legendre, and Chebyshev Polynomials? Optimization Methods Each chapter contains numerous practical applications supplemented with detailed instructions for using MATLAB and/or Microsoft Excel? to obtain quick solutions.

*Intrinsic Molecular Mobility and Toughness of Polymers II* Mar 07 2023

Alexander Calder Feb 06 2023 Calder's sculptural works can fit in the palm of a hand, or tower over a city square. This fascinating exhibition catalog examines how the artist's sensitivity to matters of size, scale and shape engaged audiences in a variety of ways. Few artists are able to work successfully on both large and small scales, but throughout his career Calder brilliantly moved from the miniature to the monumental and back again. This publication focuses on the enormous stables he created mostly for public places, as well as his elegant hanging mobiles in sheet metal, miniature standing mobiles, and chess sets, shedding light on the social and performative aspects of his work. Essays explore how Calder approached the effects of kinetics and space, solidity and transparency, stasis and activity, volume and void. The book also looks at how Calder's small-scale sculptures echoed the public spectacle of his larger pieces, creating a "private drama" that encouraged direct participation. Whatever the size, Calder's works employed movement and interaction in unpredictable ways, and this enlightening book helps readers appreciate the important continuity of his oeuvre.

**Mechanics of Composite Materials with MATLAB** Oct 14 2023 This is a book for people who love mechanics of composite materials and ? MATLAB . We will use the popular computer package MATLAB as a matrix calculator for doing the numerical calculations needed in mechanics of c- posite materials. In particular, the steps of the mechanical calculations will be emphasized in this book. The reader will not ?nd ready-made MATLAB programs for use as black boxes. Instead step-by-step solutions of composite material mechanics problems are examined in detail using MATLAB. All the problems in the book assume linear elastic behavior in structural mechanics. The emphasis is not on mass computations or programming, but rather on learning the composite material mechanics computations and understanding of the underlying concepts. The basic aspects of the mechanics of fiber-reinforced composite materials are covered in this book. This includes lamina analysis in both the local and global coordinate systems, laminate analysis, and failure theories of a lamina.

**Mining the Museum** Jul 19 2021

Directory Dec 16 2023

The Fae Richards Photo Archive May 09 2023 Artwork by Zoe Leonard. Contributions by Cheryl Dunye.

Evolution in Action May 29 2022 Radiations, or Evolution in Action We have just celebrated the "Darwin Year" with the double anniversary

of his 200th birthday and 150th year of his masterpiece, "On the Origin of Species by means of Natural Selection". In this work, Darwin established the factual evidence of biological evolution, that species change over time, and that new organisms arise by the splitting of ancestral forms into two or more descendant species. However, above all, Darwin provided the mechanisms by arguing convincingly that it is by natural selection – as well as by sexual selection (as he later added) – that organisms adapt to their environment. The many discoveries since then have essentially confirmed and strengthened Darwin's central theses, with latest evidence, for example, from molecular genetics, revealing the evolutionary relationships of all life forms through one shared history of descent from a common ancestor. We have also come a long way to progressively understand more on how new species actually originate, i. e. on speciation which remained Darwin's "mystery of matteries", as noted in one of his earliest transmutation notebooks. Since speciation is the underlying mechanism for radiations, it is the ultimate causation for the biological diversity of life that surrounds us.

Land Use Change and Mountain Biodiversity Sep 01 2022 Part of the worldwide biodiversity program DIVERSITAS, the Global Mountain Biodiversity Assessment (GMBA) assesses the biological richness of high-elevation biota. GMBA's focus includes the uppermost forest regions or their substitute rangeland vegetation, the treeline ecotone, and the alpine and nival belts. Providing more than description, the GM

**Public Accounts, Alberta** Feb 18 2024

**The Role of Humic Substances in the Ecosystems and in Environmental Protection** May 17 2021

*Fluxes of Carbon, Water and Energy of European Forests* Apr 27 2022 After years of technological development and its important achievements to make our life easier and more comfortable, human society is going to face one of the most difficult challenges of the last century: to stabilize the concentration levels of greenhouse gases in the atmosphere to prevent harmful effects on the climate system. Through a delicate balance between photosynthesis and respiration, terrestrial ecosystems, and in particular forests, are today thought to take up a significant part of the carbon dioxide emissions in the atmosphere, sometimes called the "terrestrial carbon sink". However, the location, magnitude, and vulnerability of the carbon dioxide sink of the terrestrial biota are still uncertain. The suite of traditional tools in an ecologist's toolbox for studying ecosystem productivity and carbon balance include leaf cuvettes, whole-plant and soil chambers for gas exchange, and biomass and soil carbon inventories. While each of the cited methods has distinct advantages, they are limited with regards to their ability to measure

net carbon dioxide exchange of the whole ecosystem across a variety of time scales. This book presents a compendium of results of a European project (EURO FLUX), funded by the European Commission through its fourth framework program, aiming to elucidate the role of forests in continental carbon balance.

*Making Peace in an Age of War* Nov 22 2021 This English-language translation of Mark Hengerer's *Kaiser Ferdinand III: 1608–1657 Eine Biographie* is based on an analysis of the weekly reports sent by the papal nuncio's office to the Vatican. These reports give detailed information about the daily whereabouts of the dynasty, courtiers, and foreign visitors, and they contain the gossip of the court in addition to weekly analysis of some political problems. This material enabled the author to report on daily life of the dynasty and to analyze the circumstances under which policy was made, which has led to a balance between the personality of Ferdinand III and the problems with which he dealt. In this biography, Hengerer provides answers to the question: Why did it take the emperor more than ten years to end a devastating war, the traumatizing effects of which on central Europe lasted into the twentieth century, particularly since there was no hope of victory against his foreign adversaries from the very moment he came into power?

**Archive Fever** Jun 17 2021 Organized and written by renowned scholar and ICP Adjunct Curator Okwui Enwezor, Archive Fever presents works by leading contemporary artists who use archival documents to rethink the meaning of identity, history, memory, and loss. Over the past thirty years, successive generations have taken wide-ranging approaches to the photographic and filmic archive. The works presented here take many forms, including physical archives arranged by peculiar cataloguing methods, imagined biographies of fictitious persons, collections of found and anonymous photographs, film versions of photographic albums, and photomontages composed of historical photographs. These images have a wide-ranging subject matter yet are linked by the artists' shared meditation on photography and film as the quintessential media of the archive. Artists in the exhibition include Tacita Dean, Stan Douglas, Felix Gonzalez-Torres, Zoe Leonard, Ilán Lieberman, Walid Raad, Thomas Ruff, Anri Sala, Fazal Sheikh, Eyal Sivan, Lorna Simpson, and Vivan Sundaram, among others.

English Compounds and their Spelling Aug 20 2021 Anyone writing texts in English is constantly faced with the unavoidable question whether to use open spelling (drinking fountain), hyphenation (far-off) or solid spelling (airport) for individual compounds. While some compounds commonly occur with alternative spellings, others show a very clear bias for one form. This book tests over 60 hypotheses and explores the patterns underlying the spelling of English compounds from a variety of perspectives. Based on a sample of 600

biconstituent compounds with identical spelling in all reference works in which they occur (200 each with open, hyphenated and solid spelling), this empirical study analyses large amounts of data from corpora and dictionaries and concludes that the spelling of English compounds is not chaotic but actually correlates with a large number of statistically significant variables. An easily applicable decision tree is derived from the data and an innovative multi-dimensional prototype model is suggested to account for the results.

Rethinking the Age of Emancipation Nov 03 2022 Since the end of the nineteenth century, traditional historiography has emphasized the similarities between Italy and Germany as “late nations”, including the parallel roles of “great men” such as Bismarck and Cavour. Rethinking the Age of Emancipation aims at a critical reassessment of the development of these two “late” nations from a new and transnational perspective. Essays by an international and interdisciplinary group of scholars examine the discursive relationships among nationalism, war, and emancipation as well as the ambiguous roles of historical protagonists with competing national, political, and religious loyalties.

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