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BACH PERSPECTIVES, VOLUME 12

BACH AND THE COUNTERPOINT OF RELIGION

University of Illinois Press Johann Sebastian Bach was a Lutheran and much of his music was for Lutheran liturgical worship. As these insightful essays in the twelfth volume of Bach Perspectives demonstrate, he was also influenced by--and in turn influenced--different expressions of religious belief. The vocal music, especially the Christmas Oratorio, owes much to medieval Catholic mysticism, and the evolution of the B minor Mass has strong Catholic connections. In Leipzig, Catholic and Lutheran congregations sang many of the same vernacular hymns. Internal squabbles were rarely missing within Lutheranism, for example Pietists' dislike of concerted church music, especially if it employed specific dance forms. Also investigated here are broader issues such as the close affinity between Bach's cantata libretti and the hymns of Charles Wesley; and Bach's music in the context of the Jewish Enlightenment as shaped by Protestant Rationalism in Berlin. Contributors: Rebecca Cypess, Joyce L. Irwin, Robin A. Leaver, Mark Noll, Markus Rathey, Derek Stauff, and Janice B. Stockigt.

OCEANOBS'19: AN OCEAN OF OPPORTUNITY. VOLUME II

Frontiers Media SA

ANTI-AGING THERAPEUTICS VOLUME XV

A4M American Academy of Anti-Aging Medicine Proceedings of the Twentieth World Congress on Anti-Aging Medicine & Regenerative Biomedical Technologies, Spring and Winter Sessions

RESEARCH AND DEVELOPMENT IN INTELLIGENT SYSTEMS XXVIII

INCORPORATING APPLICATIONS AND INNOVATIONS IN INTELLIGENT SYSTEMS XIX PROCEEDINGS OF AI-2011, THE THIRTY-FIRST SGAI INTERNATIONAL CONFERENCE ON INNOVATIVE TECHNIQUES AND APPLICATIONS OF ARTIFICIAL INTELLIGENCE

Springer Science & Business Media The papers in this volume are the refereed papers presented at AI-2011, the Thirty-first SGAI International Conference on Innovative Techniques and Applications of Artificial Intelligence, held in Cambridge in December 2011 in both the technical and the application streams. They present new and innovative developments and applications, divided into technical stream sections on Planning, Evolutionary Algorithms, Speech and Vision, and Machine Learning, followed by application stream sections on Knowledge Discovery and Data Mining, Machine Learning, Evolutionary Algorithms and AI in Action. The volume also includes the text of short papers presented as posters at the conference. This is the twenty-eighth volume in the Research and Development in Intelligent Systems series, which also incorporates the nineteenth volume in the Applications and Innovations in Intelligent Systems series. These series are essential reading for those who wish to keep up to date with developments in this important field.

ANALYSIS OF FOOD TOXINS AND TOXICANTS, 2 VOLUME SET

John Wiley & Sons Analysis of Food Toxins and Toxicants consists of five sections, providing up-to-date descriptions of the analytical approaches used to detect a range of food toxins. Part I reviews the recent developments in analytical technology including sample pre-treatment and food additives. Part II covers the novel analysis of microbial and plant toxins including plant pyrrolizidine alkaloids. Part III focuses on marine toxins in fish and shellfish. Part IV discusses biogenic amines and common food toxicants, such as pesticides and heavy metals. Part V summarizes quality assurance and the recent developments in regulatory limits for toxins, toxicants and allergens, including discussions on laboratory accreditation and reference materials.

INDUSTRY 4.0 AND GLOBAL BUSINESSES

A MULTIDISCIPLINARY INVESTIGATION

Emerald Group Publishing Industry 4.0 and Global Businesses: A Multidisciplinary Investigation provides a multidisciplinary perspective on the transformative effects of Industry 4.0 by aggregating original theoretical, conceptual, and empirical research.

ROSEN'S EMERGENCY MEDICINE - CONCEPTS AND CLINICAL PRACTICE, 2-VOLUME SET,EXPERT CONSULT PREMIUM EDITION - ENHANCED ONLINE FEATURES AND PRINT,7

ROSEN'S EMERGENCY MEDICINE - CONCEPTS AND CLINICAL PRACTICE, 2-VOLUME SET

Elsevier Health Sciences This reference places the latest information at users' fingertips, and a more streamlined format makes it easy to find the exact information quickly and conveniently. Includes access to a companion Web site for additional resources.

MACHINE LEARNING

A PROBABILISTIC PERSPECTIVE

MIT Press A comprehensive introduction to machine learning that uses probabilistic models and inference as a unifying approach. Today's Web-enabled deluge of electronic data calls for automated methods of data analysis. Machine learning provides these, developing methods that can automatically detect patterns in data and then use the uncovered patterns to predict future data. This textbook offers a comprehensive and self-contained introduction to the field of machine learning, based on a unified, probabilistic approach. The coverage combines breadth and depth, offering necessary background material on such topics as probability, optimization, and linear algebra as well as discussion of recent developments in the field, including conditional random fields, L1 regularization, and deep learning. The book is written in an informal, accessible style, complete with pseudo-code for the most important algorithms. All topics are copiously illustrated with color images and worked examples drawn from such application domains as biology, text processing, computer vision, and robotics. Rather than providing a cookbook of different heuristic methods, the book stresses a principled model-based approach, often using the language of graphical models to specify models in a concise and intuitive way. Almost all the models described have been implemented in a MATLAB software package—PMTK (probabilistic modeling toolkit)—that is freely available online. The book is suitable for upper-level undergraduates with an introductory-level college math background and beginning graduate students.

ROSENBERG'S MOLECULAR AND GENETIC BASIS OF NEUROLOGICAL AND PSYCHIATRIC DISEASE

VOLUME 2

Academic Press Rosenberg's Molecular and Genetic Basis of Neurologic and Psychiatric Disease, Sixth Edition: Volume Two provides a comprehensive introduction and reference to the foundations and practical aspects relevant to the majority of neurologic and psychiatric disease. This updated volume focuses on degenerative disorders, movement disorders, neuro-oncology, neurocutaneous disorders, epilepsy, white matter diseases, neuropathies and neuronopathies, muscle and neuromuscular junction disorders, stroke, psychiatric disease, and a neurologic gene map. A favorite of over three generations of students, clinicians and scholars, this new edition retains and expands on the informative, concise and critical tone of the first edition. This is an essential reference for general medical practitioners, neurologists, psychiatrists, geneticists, related professionals, and for the neuroscience and neurology research community at large. The content covers all aspects essential to the practice of neurogenetics to inform clinical diagnosis, treatment and genetic counseling. Provides comprehensive coverage on the neurogenetic foundation of neurological and psychiatric disease Presents detailed coverage of genomics, animal models and diagnostic methods, with new coverage on evaluating patients with biochemical abnormalities or gene mutations Includes new chapters on the pharmacogenomics of epilepsy and the most recent updates in molecular genetics, focusing on neurodegenerative and psychiatric diseases

REDEFINING DIVERSITY AND DYNAMICS OF NATURAL RESOURCES MANAGEMENT IN ASIA, VOLUME 3

NATURAL RESOURCE DYNAMICS AND SOCIAL ECOLOGICAL SYSTEMS IN CENTRAL VIETNAM: DEVELOPMENT, RESOURCE CHANGES AND CONSERVATION ISSUES

Elsevier Redefining Diversity and Dynamics of Natural Resources Management in Southeast Asia, Volumes 1-4 brings together scientific research and policy issues across various

topographical areas in Asia to provide a comprehensive overview of the issues facing this region. Natural Resource Dynamics and Social Ecological Systems in Central Vietnam: Development, Resource Changes and Conservation Issues, Volume 3, focuses on the issues specific to Central Vietnam that are also found globally. War had significantly impacted both land and water resources, from which it had to recover environmentally. Additionally, this is an area with growing urbanization pressures and industrial development, both of which are known for stretching resources beyond their limits. The introduction of several hydro-electric power projects have even further eroded the local agricultural and forest ecosystems. This volume looks at Central Vietnam holistically, from management and use to policy and data-driven solutions. Provides land management practitioners and policy makers with the tools to deal with natural resource issues in a developing nation Reviews the impacts of the first PES, Payment for Ecosystem Services, policies upon which were based similar programs in Latin America Reviews the current and potential future land management of Central Vietnam, giving an eye to solutions for any nation impacted by war, trying to balance development with conservation efforts and provide their populations with sustainable economic futures Examines Central Vietnam holistically, from management and use to policy and data-driven solutions

THE MASS OF THE ROMAN RITE

ITS ORIGIN AND DEVELOPMENT = MISSARUM SOLLEMNIA

HEREDITARY GENIUS

AN INQUIRY INTO ITS LAWS AND CONSEQUENCES

THE OXFORD TEXTBOOK OF CLINICAL RESEARCH ETHICS

OUP USA The Oxford Textbook of Clinical Research Ethics is the first comprehensive and systematic reference on clinical research ethics. Under the editorship of experts from the U.S. National Institutes of Health of the United States, the book's 73 chapters offer a wide-ranging and systematic examination of all aspects of research with human beings. Considering the historical triumphs of research as well as its tragedies, the textbook provides a framework for analyzing the ethical aspects of research studies with human beings. Through both conceptual analysis and systematic reviews of empirical data, the contributors examine issues ranging from scientific validity, fair subject selection, risk benefit ratio, independent review, and informed consent to focused consideration of international research ethics, conflicts of interests, and other aspects of responsible conduct of research. The editors of The Oxford Textbook of Clinical Research Ethics offer a work that critically assesses and advances scholarship in the field of human subjects research. Comprehensive in scope and depth, this book will be a crucial resource for researchers in the medical sciences, as well as teachers and students.

INTERNATIONAL JOURNAL OF PSYCHOSOCIAL REHABILITATION 20TH EDITION

Lulu.com This private NON-PROFIT professional publication and associated web-based, information archive service is dedicated to the enhancement of practice, program development, program evaluation and innovations in mental health and substance abuse treatment programs worldwide. Its goal is to provide a public forum for practitioners, consumers and researchers to address the multiple service needs of patients and families and help determine what works, for whom under a variety of circumstances.

LOWER URINARY TRACT SYMPTOMS IN ADULTS

A CLINICAL APPROACH

Springer Nature This book provides an in-depth insight into the symptoms and symptom complexes affecting the lower urinary tract and the underlying causative conditions. The emphasis throughout is practical and clinical, with coverage of all levels of the patient pathway. In addition to the extensive guidance on diagnostic assessment and interpretation, the management of voiding and storage lower urinary tract symptoms, including incontinence, is fully described and potential complications and neurological conditions are discussed. Information is also included on relevant basic science and epidemiology. Lower Urinary Tract Symptoms in Adults: A Clinical Approach will be an ideal source of expert knowledge for practitioners in functional urology, urogynecology, and neuro-urology gerontology. .

MANAGEMENT OF HEART FAILURE

VOLUME 2: SURGICAL

Springer Management of Heart Failure: Surgical will provide the full spectrum of surgical options, ICU management and rehabilitation, while also referencing heavily the companion volume of Management of Heart Failure: Medical by introducing the medical options in heart failure . The contributing authors are all key opinion leaders in the medical management of heart failure. This volume is designed to integrate with its sister medical title, but also alone be the definitive guide to the surgical management of heart failure.

GAUSSIAN PROCESSES FOR MACHINE LEARNING

MIT Press A comprehensive and self-contained introduction to Gaussian processes, which provide a principled, practical, probabilistic approach to learning in kernel machines. Gaussian processes (GPs) provide a principled, practical, probabilistic approach to learning in kernel machines. GPs have received increased attention in the machine-learning community over the past decade, and this book provides a long-needed systematic and unified treatment of theoretical and practical aspects of GPs in machine learning. The treatment is comprehensive and self-contained, targeted at researchers and students in machine learning and applied statistics. The book deals with the supervised-learning problem for both regression and classification, and includes detailed algorithms. A wide variety of covariance (kernel) functions are presented and their properties discussed. Model selection is discussed both from a Bayesian and a classical perspective. Many connections to other well-known techniques from machine learning and statistics are discussed, including support-vector machines, neural networks, splines, regularization networks, relevance vector machines and others. Theoretical issues including learning curves and the PAC-Bayesian framework are treated, and several approximation methods for learning with large datasets are discussed. The book contains illustrative examples and exercises, and code and datasets are available on the Web. Appendixes provide mathematical background and a discussion of Gaussian Markov processes.

FANTASY, ONLINE MISOGYNY AND THE MANOSPHERE

MALE BODIES OF DIS/INHIBITION

Routledge This book presents the first in-depth study of online misogyny and the manosphere from a psychoanalytic perspective. The author argues that the men of the manosphere present contradictory thoughts, desires and fantasies about women which include but also go beyond misogyny. They are in a state of dis/inhibition: torn between (un)conscious forces and fantasies which erupt and are defended against. Dis/inhibition shows itself in self-victimization and defensive apathy as well as toxic agency and symbolic power and expresses itself in desire for and hatred of other bodies. The text draws on the psychoanalytic thinkers Klaus Theweleit, Elisabeth Young-Bruehl, Jessica Benjamin and Wilhelm Reich to present detailed analyses of the communities within the so-called manosphere, including incels, Men Going Their Own Way (MGTOW), alt-right YouTubers and NoFap users. Drawing on wider discussions about the status of sexuality in contemporary neoliberal technoculture since the sexual revolution of the late 1960s, it illuminates how sexuality, racism and images of the white male body shape the fantasies and affects of many men on the internet and beyond. Integrating a unique theoretical framework to help understand how today's increase in online misogyny relates to the alt-right and fascism, Online Misogyny and the Manosphere is an important resource for academics in a variety of fields including psychoanalysis, media and communication studies, internet studies, masculinity research and more.

DETERMINERS

UNIVERSALS AND VARIATION

John Benjamins Publishing This volume brings together recent work on the formal and interpretational properties of determiners across a variety of typologically and geographically unrelated languages. It seeks to answer the core question of modern linguistic theory: Which properties of languages are universal and which are variable? In recent theorizing, much of language variation is argued to stem from differences in the properties of features associated with functional heads. As such, this volume can be viewed as a case study of one such category: the determiner (D). The contributions all investigate the status of D as a language universal by examining the language-specific syntactic and semantic properties associated with this category. This volume will appeal to researchers and students in syntax and semantics, as well as to those who have more a specific interest in determiners and noun phrases.

INORGANIC SYNTHESES

John Wiley & Sons The volumes in this continuing series provide a compilation of current techniques and ideas in inorganic synthetic chemistry. Includes inorganic polymer syntheses and preparation of important inorganic solids, syntheses used in the development of pharmacologically active inorganic compounds, small-molecule coordination complexes, and related compounds. Also contains valuable information on transition organometallic compounds including species with metal-metal cluster molecules. All syntheses presented here have been tested.

A PERFORMER'S GUIDE TO TRANSCRIBING, EDITING, AND ARRANGING EARLY MUSIC

Oxford University Press Provides instruction on three important tasks that early music performers often undertake in order to make their work more noticeable and appealing to their audiences. First, the book provides instruction on using early sources - manuscripts, prints, and treatises - in score, parts, or tablature. It then illuminates priorities behind basic editorial decisions - determining what constitutes a 'version' of a musical piece, how to choose a version, and how to choose the source for that version. Lastly, the book offers

advice about arranging both early and new music for early instruments, including how to consider instruments' ranges and various registers, how to exploit the unique characteristics of period instruments, and how to produce convincing textures of accompaniment.

AUTOMATED MACHINE LEARNING

METHODS, SYSTEMS, CHALLENGES

Springer This open access book presents the first comprehensive overview of general methods in Automated Machine Learning (AutoML), collects descriptions of existing systems based on these methods, and discusses the first series of international challenges of AutoML systems. The recent success of commercial ML applications and the rapid growth of the field has created a high demand for off-the-shelf ML methods that can be used easily and without expert knowledge. However, many of the recent machine learning successes crucially rely on human experts, who manually select appropriate ML architectures (deep learning architectures or more traditional ML workflows) and their hyperparameters. To overcome this problem, the field of AutoML targets a progressive automation of machine learning, based on principles from optimization and machine learning itself. This book serves as a point of entry into this quickly-developing field for researchers and advanced students alike, as well as providing a reference for practitioners aiming to use AutoML in their work.

CIVIL SERVANTS AND GLOBALIZATION

INTEGRATING MENA COUNTRIES IN A GLOBALIZED ECONOMY

Policy Press This volume analyses the impact of globalization on civil service systems across the Middle East and North Africa. A collaboration between practitioners and academic public policy experts, it presents an analytical model to assess how globalization influences civil servants, illustrated by case studies of countries where there have been increased engagement with international actors. It demonstrates how this increased interaction has altered the position of civil servants and traces the shifting patterns of power and accountability between civil servants, politicians and other actors. It is an original and important addition to the debate about globalization's role in transnational public administration and governance.

ROUTLEDGE HANDBOOK OF THE HORN OF AFRICA

Routledge The Routledge Handbook of the Horn of Africa provides a comprehensive, interdisciplinary survey of contemporary research related to the Horn of Africa. Situated at the junction of the Sahel-Saharan strip and the Arabian Peninsula, the Horn of Africa is growing in global importance due to demographic growth and the strategic importance of the Suez Canal. Divided into sections on authoritarianism and resistance, religion and politics, migration, economic integration, the military, and regimes and liberation, the contributors provide up-to-date, authoritative knowledge on the region in light of contemporary strategic concerns. The handbook investigates how political, economic, and security innovations have been implemented, sometimes with violence, by use of force or by negotiation – including 'ethnic federalism' in Ethiopia, independence in Eritrea and South Sudan, integration of the traditional authorities in the (neo)patrimonial administrations, Somalian Islamic Courts, the Sudanese Islamist regime, people's movements, multilateral operations, and the construction of an architecture for regional peace and security. Accessibly written, this handbook is an essential read for scholars, students, and policy professionals interested in the contemporary politics in the Horn of Africa.

ADVANCED CALCULUS

REVISED

World Scientific Publishing Company An authorised reissue of the long out of print classic textbook, Advanced Calculus by the late Dr Lynn Loomis and Dr Shlomo Sternberg both of Harvard University has been a revered but hard to find textbook for the advanced calculus course for decades. This book is based on an honors course in advanced calculus that the authors gave in the 1960's. The foundational material, presented in the unstarred sections of Chapters 1 through 11, was normally covered, but different applications of this basic material were stressed from year to year, and the book therefore contains more material than was covered in any one year. It can accordingly be used (with omissions) as a text for a year's course in advanced calculus, or as a text for a three-semester introduction to analysis. The prerequisites are a good grounding in the calculus of one variable from a mathematically rigorous point of view, together with some acquaintance with linear algebra. The reader should be familiar with limit and continuity type arguments and have a certain amount of mathematical sophistication. As possible introductory texts, we mention Differential and Integral Calculus by R Courant, Calculus by T Apostol, Calculus by M Spivak, and Pure Mathematics by G Hardy. The reader should also have some experience with partial derivatives. In overall plan the book divides roughly into a first half which develops the calculus (principally the differential calculus) in the setting of normed vector spaces, and a second half which deals with the calculus of differentiable manifolds.

DIGITAL CONTACT TRACING FOR PANDEMIC RESPONSE

ETHICS AND GOVERNANCE GUIDANCE

Johns Hopkins University Press Contributors: Joseph Ali, JD; Anne Barnhill, PhD; Anita Cicero, JD; Katelyn Esmonde, PhD; Amelia Hood, MA; Brian Hutler, Phd, JD; Jeffrey P. Kahn, PhD, MPH; Alan Regenberg, MBE; Crystal Watson, DrPH, MPH; Matthew Watson; Robert Califf, MD, MACC; Ruth Faden, PhD, MPH; Divya Hosangadi, MSPH; Nancy Kass, ScD; Alain Labrique, PhD, MHS, MS; Deven McGraw, JD, MPH, LLM; Michelle Mello, JD, PhD; Michael Parker, BEd (Hons), MA, PhD; Stephen Ruckman, JD, MSc, MAR; Lainie Rutkow, JD, MPH, PhD; Josh Sharfstein, MD; Jeremy Sugarman, MD, MPH, MA; Eric Toner, MD; Mar Trotochaud, MSPH; Effy Vayena, PhD; Tal Zarsky, JSD, LLM, LLB

DISTRIBUTED OPTIMIZATION AND STATISTICAL LEARNING VIA THE ALTERNATING DIRECTION METHOD OF MULTIPLIERS

Now Publishers Inc Surveys the theory and history of the alternating direction method of multipliers, and discusses its applications to a wide variety of statistical and machine learning problems of recent interest, including the lasso, sparse logistic regression, basis pursuit, covariance selection, support vector machines, and many others.

ELEMENTS OF CAUSAL INFERENCE

FOUNDATIONS AND LEARNING ALGORITHMS

MIT Press A concise and self-contained introduction to causal inference, increasingly important in data science and machine learning. The mathematization of causality is a relatively recent development, and has become increasingly important in data science and machine learning. This book offers a self-contained and concise introduction to causal models and how to learn them from data. After explaining the need for causal models and discussing some of the principles underlying causal inference, the book teaches readers how to use causal models: how to compute intervention distributions, how to infer causal models from observational and interventional data, and how causal ideas could be exploited for classical machine learning problems. All of these topics are discussed first in terms of two variables and then in the more general multivariate case. The bivariate case turns out to be a particularly hard problem for causal learning because there are no conditional independences as used by classical methods for solving multivariate cases. The authors consider analyzing statistical asymmetries between cause and effect to be highly instructive, and they report on their decade of intensive research into this problem. The book is accessible to readers with a background in machine learning or statistics, and can be used in graduate courses or as a reference for researchers. The text includes code snippets that can be copied and pasted, exercises, and an appendix with a summary of the most important technical concepts.

GAME FEEL

A GAME DESIGNER'S GUIDE TO VIRTUAL SENSATION

CRC Press "Game Feel" exposes "feel" as a hidden language in game design that no one has fully articulated yet. The language could be compared to the building blocks of music (time signatures, chord progressions, verse) - no matter the instruments, style or time period - these building blocks come into play. Feel and sensation are similar building blocks where game design is concerned. They create the meta-sensation of involvement with a game. The understanding of how game designers create feel, and affect feel are only partially understood by most in the field and tends to be overlooked as a method or course of study, yet a game's feel is central to a game's success. This book brings the subject of feel to light by consolidating existing theories into a cohesive book. The book covers topics like the role of sound, ancillary indicators, the importance of metaphor, how people perceive things, and a brief history of feel in games. The associated web site contains a playset with ready-made tools to design feel in games, six key components to creating virtual sensation. There's a play palette too, so the desiger can first experience the importance of that component by altering variables and feeling the results. The playset allows the reader to experience each of the sensations described in the book, and then allows them to apply them to their own projects. Creating game feel without having to program, essentially. The final version of the playset will have enough flexibility that the reader will be able to use it as a companion to the exercises in the book, working through each one to create the feel described.

ACUTE AND EMERGENT EVENTS IN SLEEP DISORDERS

OUP USA America is a 24/7 lifestyle. This makes sleep—especially disruptions in sleep—a pressing concern for many Americans. According to the National Sleep Foundation (NSF), approximately 40 million Americans suffer from chronic sleep disorders, and an estimated 20-30 million others experience sleep-related problems. Chronic sleep disorders may also lead to psychiatric disorders such as depression and schizophrenia. Moreover, neurological disorders such as seizures, strokes, Parkinson's, etc, and medical disorders such as asthma or arrhythmia, also affect the quality of sleep Americans receive. Acute and Emergent Events in Sleep Disorders creates awareness for the management of disorders that occur during sleep. Chokroverty and Sahota bring greater awareness to the treatment of sleep disorders, as well as treatments of neurological, medical, and psychiatric disorders.

The book has six different sections covers a wide range of topics dealing with how to treat and manage these events. For example, when to prescribe CPAP (Continuous Positive Airway Pressure) machines for sleep apnea patients' whose risks are doubled for stroke or death, as compared to those without the disorder. Another segment discusses treatment of Restless Legs Syndrome (RLS), a movement disorder which is amplified when trying to rest. Managing depression, which affects patients' sleep cycles, is analyzed as well as its relation to sleep-deprivation and insomnia. Considerations for sleep disorders in children, such as Sudden Infant Death Syndrome (SIDS) are also presented. This book serves an effective tool for neurologists, clinical neuroscientists, residents, and fellows.

PRODUCED WATER

ENVIRONMENTAL RISKS AND ADVANCES IN MITIGATION TECHNOLOGIES

Springer Science & Business Media A state-of-the-art review of scientific knowledge on the environmental risk of ocean discharge of produced water and advances in mitigation technologies. In offshore oil and gas operations, produced water (the water produced with oil or gas from a well) accounts for the largest waste stream (in terms of volume discharged). Its discharge is continuous during oil and gas production and typically increases in volume over the lifetime of an offshore production platform. Produced water discharge as waste into the ocean has become an environmental concern because of its potential contaminant content. Environmental risk assessments of ocean discharge of produced water have yielded different results. For example, several laboratory and field studies have shown that significant acute toxic effects cannot be detected beyond the "point of discharge" due to rapid dilution in the receiving waters. However, there is some preliminary evidence of chronic sub-lethal impacts in biota associated with the discharge of produced water from oil and gas fields within the North Sea. As the composition and concentration of potential produced water contaminants may vary from one geologic formation to another, this conference also highlights the results of recent studies in Atlantic Canada.

ENVIRONMENTAL IMPACTS OF WIND-ENERGY PROJECTS

National Academies Press The generation of electricity by wind energy has the potential to reduce environmental impacts caused by the use of fossil fuels. Although the use of wind energy to generate electricity is increasing rapidly in the United States, government guidance to help communities and developers evaluate and plan proposed wind-energy projects is lacking. Environmental Impacts of Wind-Energy Projects offers an analysis of the environmental benefits and drawbacks of wind energy, along with an evaluation guide to aid decision-making about projects. It includes a case study of the mid-Atlantic highlands, a mountainous area that spans parts of West Virginia, Virginia, Maryland, and Pennsylvania. This book will inform policy makers at the federal, state, and local levels.

OXFORD TEXTBOOK OF GLOBAL PUBLIC HEALTH

Oxford University Press Sixth edition of the hugely successful, internationally recognised textbook on global public health and epidemiology comprehensively covering the scope, methods, and practice of the discipline.

LEARNING WITH SUBMODULAR FUNCTIONS

A CONVEX OPTIMIZATION PERSPECTIVE

Learning with Submodular Functions presents the theory of submodular functions in a self-contained way from a convex analysis perspective, presenting tight links between certain polyhedra, combinatorial optimization and convex optimization problems.

FEIGIN AND CHERRY'S TEXTBOOK OF PEDIATRIC INFECTIOUS DISEASES E-BOOK

2-VOLUME SET

Elsevier Health Sciences Feigin and Cherry's Textbook of Pediatric Infectious Diseases helps you put the very latest knowledge to work for your young patients with unparalleled coverage of everything from epidemiology, public health, and preventive medicine through clinical manifestations, diagnosis, treatment, and much more. Ideal for all physicians, whether in an office or hospital setting, Feigin and Cherry's equips you with trusted answers to your most challenging clinical infectious disease questions. Meet your most difficult clinical challenges in pediatric infectious disease, including today's more aggressive infectious and resistant strains as well as emerging and re-emerging diseases, with unmatched, comprehensive coverage of immunology, epidemiology, public health, preventive medicine, clinical manifestations, diagnosis, treatment, and much more. Find the answers you need quickly thanks to an organization both by organ system and by etiologic microorganism, allowing you to easily approach any topic from either direction.

JOHANN SEBASTIAN BACH'S ST JOHN PASSION (BWV 245): A THEOLOGICAL COMMENTARY

WITH A NEW STUDY TRANSLATION BY KATHERINE FIRTH AND A PREFACE BY N. T. WRIGHT

BRILL This Theological Commentary on Johann Sebastian Bach's St John Passion explains the historical context of Lutheran church music, and then explains the Biblical and poetic text, and its musical setting, line by line.

THE INDUSTRIAL REVOLUTION - LOST IN ANTIQUITY - FOUND IN THE RENAISSANCE

Cort MacLean Johns Ph.D.- HSG Ever increasing research evidence continues to mount. Having started my research on the connection of the Hydraulis to the roots of the more recent Industrial Revolution at the University of St. Gallen in 1989 over 30 years ago, I continue to identify additional support for it. We do not know whether the beginnings of an Industrial Revolution in Hellenistic Greece would have continued if not cut off by the Roman Empire's conquests. Neither do we know whether the more recent (latent) Industrial Revolution could have risen up again in the 17th-century without Vitruvius or Hero of Alexander's preserved writings. The point of this book is to emphasize with new findings that had the Romans not stopped the growth of science and technology in the Hellenistic Period that it would have likely continued to develop into a full-fledged Industrial Revolution. Secondly, the more recent Industrial Revolution borrowed heavily on the technology and science of the Hellenistic Period. In the true sense of the "Renaissance" 17th-century industrial progress largely picked up the written remnants of Antiquity to be able to continue on after a centuries long caesura.

THE LOST INDUSTRIAL REVOLUTION

Lulu Press, Inc The Lost Industrial Revolution is a revisionist, well researched work being the definitive account of the roots of the Industrial Revolution that began with Ctesibius in 270 BC at the onset of the Hellenistic Period and continues until the invention of the steam engine by James Watt in 1776, encompassing almost 2000 years of history.

FINDING WHAT WORKS IN HEALTH CARE

STANDARDS FOR SYSTEMATIC REVIEWS

National Academies Press Healthcare decision makers in search of reliable information that compares health interventions increasingly turn to systematic reviews for the best summary of the evidence. Systematic reviews identify, select, assess, and synthesize the findings of similar but separate studies, and can help clarify what is known and not known about the potential benefits and harms of drugs, devices, and other healthcare services. Systematic reviews can be helpful for clinicians who want to integrate research findings into their daily practices, for patients to make well-informed choices about their own care, for professional medical societies and other organizations that develop clinical practice guidelines. Too often systematic reviews are of uncertain or poor quality. There are no universally accepted standards for developing systematic reviews leading to variability in how conflicts of interest and biases are handled, how evidence is appraised, and the overall scientific rigor of the process. In Finding What Works in Health Care the Institute of Medicine (IOM) recommends 21 standards for developing high-quality systematic reviews of comparative effectiveness research. The standards address the entire systematic review process from the initial steps of formulating the topic and building the review team to producing a detailed final report that synthesizes what the evidence shows and where knowledge gaps remain. Finding What Works in Health Care also proposes a framework for improving the quality of the science underpinning systematic reviews. This book will serve as a vital resource for both sponsors and producers of systematic reviews of comparative effectiveness research.

VI LATIN AMERICAN CONGRESS ON BIOMEDICAL ENGINEERING CLAIB 2014, PARANÁ, ARGENTINA 29, 30 & 31 OCTOBER 2014

Springer This volume presents the proceedings of the CLAIB 2014, held in Paraná, Entre Ríos, Argentina 29, 30 & 31 October 2014. The proceedings, presented by the Regional Council of Biomedical Engineering for Latin America (CORAL) offer research findings, experiences and activities between institutions and universities to develop Bioengineering, Biomedical Engineering and related sciences. The conferences of the American Congress of Biomedical Engineering are sponsored by the International Federation for Medical and Biological Engineering (IFMBE), Society for Engineering in Biology and Medicine (EMBS) and the Pan American Health Organization (PAHO), among other organizations and international agencies and bringing together scientists, academics and biomedical engineers in Latin America and other continents in an environment conducive to exchange and professional growth. The Topics include: - Bioinformatics and Computational Biology - Bioinstrumentation; Sensors, Micro and Nano Technologies - Biomaterials, Tissue Engineering and Artificial Organs - Biomechanics, Robotics and Motion Analysis - Biomedical Images and Image Processing - Biomedical Signal Processing - Clinical Engineering and Electromedicine - Computer and Medical Informatics - Health and home care, telemedicine - Modeling and Simulation - Radiobiology, Radiation and Medical Physics - Rehabilitation Engineering and Prosthetics - Technology, Education and Innovation