

Eksamen Folk Ntnu

The Patient's Wish to Die **Coastal Structures 2011** The Application of Hydraulic and Sediment Transport Models in Fluvial Geomorphology
Ways Ahead *PEROVSKITES AND OTHER FRAMEWORK STRUCTURE CRYSTALLINE MATERIALS* *New Directions in Homotopy Theory*
Durability Design of Concrete Structures in Severe Environments, Second Edition *Geometry and Invariance in Stochastic Dynamics*
Comprehensive Energy Systems *Discrete Mechanics, Geometric Integration and Lie–Butcher Series* Computational Science - ICCS 2007
Real-Time Optimization *Singing the Body Electric: The Human Voice and Sound Technology* Pattern Recognition **Offshore Energy**
Structures Topological Data Analysis **Adam's Gene and the Mitochondrial Eve** **Twenty-Seventh International Congress on Large Dams**
Vingt-Septième Congrès International des Grands Barrages *Categorical, Homological and Combinatorial Methods in Algebra*
Echocardiography in Acute Coronary Syndrome **Diagnostic Radiology Physics with MATLAB®** **Advanced Thermodynamics**
Characteristics and Implications of Surface Gravity Waves in the Littoral Zone of a Large Lake (Lake Constance) **Handbook of Climate**
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Categorical, Homological and Combinatorial Methods in Algebra Apr 16 2021 This book contains the proceedings of the AMS Special Session, in honor of S. K. Jain's 80th birthday, on Categorical, Homological and Combinatorial Methods in Algebra held from March 16–18,

2018, at Ohio State University, Columbus, Ohio. The articles contained in this volume aim to showcase the current state of art in categorical, homological and combinatorial aspects of algebra.

Offshore Energy Structures Aug 21 2021 This book provides all the key information needed to design offshore structures for renewable energy applications successfully. Suitable for practicing engineers and students, the author conveys design principles and best practices in a clear, concise manner, focusing on underlying physics while eschewing complicated mathematical detail. The text connects underlying scientific theory with industry standards and practical implementation issues for offshore wind turbines, wave energy converters and current turbines. Combined concepts such as wave-wind energy platforms are discussed, as well. Coverage of design codes and numerical tools ensures the usefulness of this resource for all those studying and working in the rapidly expanding field of offshore renewable energy.

Hemodynamics and Cardiology Oct 30 2019 Dr. Richard Polin's Neonatology Questions and Controversies series highlights the most challenging aspects of neonatal care, offering trustworthy guidance on up-to-date diagnostic and treatment options in the field. In each volume, renowned experts address the clinical problems of greatest concern to today's practitioners, helping you handle difficult practice issues and provide optimal, evidence-based care to every patient. Stay fully up to date in this fast-changing field with Hemodynamics and Cardiology, 3rd Edition. A new editorial team and a completely redesigned volume with state-of-the-art chapters on neonatal hemodynamics. New chapters on the role of delayed cord clamping/cord milking, the relationship between neonatal transition and brain injury, the hemodynamics of the asphyxiated neonate, the hemodynamic impact of therapeutic hypothermia, and practical physiology-based approaches to the diagnosis and treatment of neonatal hypotension, PPHN and PDA. A new section discusses comprehensive real-time monitoring of neonatal hemodynamics, and its role in the establishment of precision medicine in neonatology and the prediction of neonatal sepsis using mathematical modelling of heart rate variability. Expanded sections review the clinical application of the tools available for bedside monitoring of systemic and organ blood flow and oxygen delivery and the approaches to the pathophysiology-based treatment of neonatal shock and outcomes. Consistent chapter organization to help you find information quickly and easily. The most authoritative advice available from world-class neonatologists who share their knowledge of new trends and developments in neonatal care. Purchase each volume individually, or get the entire 7-volume set! Gastroenterology and Nutrition Hematology, Immunology and Genetics Hemodynamics and Cardiology Infectious Disease and Pharmacology New Volume! Nephrology and Fluid/Electrolyte Physiology Neurology The Newborn Lung

Echocardiography in Acute Coronary Syndrome Mar 16 2021 Coronary artery disease is the most commonly encountered problem in adult cardiology in the world. Echocardiography is the most commonly used imaging modality encountered in cardiology practice in the world. Even though there are many Acute Coronary Syndrome (ACS) reference books and echocardiography reference books, there is no single practical book so far in the literature with focus on the combined topics. The authors believe that this will be the first book to provide information on how echocardiography can be used in, prevention, diagnosis and treatment of ACS.

Fetal Cardiology Aug 09 2020 The third edition of this established reference is the product of the combined efforts of many professionals – obstetricians, pediatric cardiologists, sonographers, molecular biologists, and medical physicists – and is a comprehensive guide intended for anyone interested in scanning the fetal cardiac system.

New Trends in Natural Dyes for Textiles Sep 09 2020 New Trends in Natural Dyes for Textiles addresses 20 natural dyes that are finding

innovative uses in industry and academia. It comprehensively addresses issues relating to natural dyes and dyeing problems, including efficient extraction and standardization of dyes, dyes structure, dyes characterization and identification. Readers working in the dyeing of textiles will learn how to improve practices to minimize environmental pollution, avoid bad dyeing, and select the best mordants to fix colorant compounds. Key benefits of natural dyes over synthetic are examined in detail, providing readers with an understanding of the importance of natural dyes and the proper methods for applying them. Provides suitable extraction processes for each of the 20 dyes described. Offers complete and practical coverage of the whole dyeing process, from source selection to post-treatments. Covers practical advice on the application of these dyes to cotton, silk and wool.

Handbook of Climate Services Nov 11 2020 This book explores climate services, including projections, descriptive information, analyses, assessments, and an overview of current trends. Due to the pressures now being put on the world's climate, it is vital to gather and share reliable climate observation and projection data, which may be tailored for use by different groups. In other words, it is essential to offer climate services. But despite the growth in the use of these services, there are very few specialist publications on this topic. This book addresses that need. Apart from presenting studies and the results of research projects, the book also offers an overview of the wide range of means available for providing and using climate services. In addition, it features case studies that provide illustrative and inspiring examples of how climate services can be optimally deployed.

Advanced Thermodynamics Jan 14 2021 Advanced Thermodynamics covers Extensive coverage of thermodynamics applications; Detailed discussion on chemical thermodynamics; Explanation of combustion phenomena; Discussion on entropy; Exergy and its applications; Application of Phases and Gibbs rule; Statistical thermodynamics; Description of various distributions and partition function; Thermodynamic laws and their applications; Information on Gas Mixtures; Thermodynamic property relations.

Defining the Medical Imaging Requirements for a Rural Health Center Jul 28 2019 This book presents the patient management challenges that rural health centers face, and establishes the criteria for the type of medical imaging services that should be available in such facilities. To make the work of the center's health practitioners more effective and efficient, the book assesses what health conditions may require medical attention in those centers. Information is provided on how to use basic imaging modalities, such as radiography and ultrasound, emphasizing the need for thoughtful service planning, careful equipment and imaging protocol selection, continuous staff training, and the implementation of quality control programs. The book is also a valuable resource for those physicians, medical physicists and service engineers who provide virtual and physical consultations to meet these needs. Rural health centers are established to prevent patients from being forced to travel to distant urban medical facilities. To manage patients properly, rural health centers should be part of regional and more complete systems of medical health care installations in the country on the basis of a referral and counter-referral program. Thus, the centers should have the infrastructure needed to transport patients to urban hospitals when they need more complex health care. The coordination of all the activities is possible only if rural health centers are led by strong and dedicated managers.

Smart Sustainable Cities Profiles: Norway Feb 01 2020 This publication presents the efforts of Alesund, Asker, Bærum, Rana and Trondheim to reinforce the implementation of the 2030 Agenda for Sustainable Development. It provides information on the policies, programmes, projects and partnerships of the cities that accelerate progress towards achieving the Sustainable Development Goals (SDGs). It also contains

recommendations that will further improve progress of these cities in achieving the SDGs.

Diagnostic Radiology Physics with MATLAB® Feb 12 2021 Imaging modalities in radiology produce ever-increasing amounts of data which need to be displayed, optimized, analyzed and archived: a "big data" as well as an "image processing" problem. Computer programming skills are rarely emphasized during the education and training of medical physicists, meaning that many individuals enter the workplace without the ability to efficiently solve many real-world clinical problems. This book provides a foundation for the teaching and learning of programming for medical physicists and other professions in the field of Radiology and offers valuable content for novices and more experienced readers alike. It focuses on providing readers with practical skills on how to implement MATLAB® as an everyday tool, rather than on solving academic and abstract physics problems. Further, it recognizes that MATLAB is only one tool in a medical physicist's toolkit and shows how it can be used as the "glue" to integrate other software and processes together. Yet, with great power comes great responsibility. The pitfalls to deploying your own software in a clinical environment are also clearly explained. This book is an ideal companion for all medical physicists and medical professionals looking to learn how to utilize MATLAB in their work. Features Encompasses a wide range of medical physics applications in diagnostic and interventional radiology Advances the skill of the reader by taking them through real-world practical examples and solutions with access to an online resource of example code The diverse examples of varying difficulty make the book suitable for readers from a variety of backgrounds and with different levels of programming experience.

New Directions in Homotopy Theory May 30 2022 This volume contains the proceedings of the Second Mid-Atlantic Topology Conference, held from March 12–13, 2016, at Johns Hopkins University in Baltimore, Maryland. The focus of the conference, and subsequent papers, was on applications of innovative methods from homotopy theory in category theory, algebraic geometry, and related areas, emphasizing the work of younger researchers in these fields.

Fluvial Hydraulics Jan 02 2020 "Bridging the gap between qualitative and quantitative descriptions of natural rivers, Fluvial Hydraulics provides a sound understanding of water and sediment flows in natural rivers. This understanding is essential for modeling and predicting hydrologic and geomorphologic processes, erosion, sediment transport, water supply and quality, habitat management, flood hazards, and river restoration. The book will be especially valuable in providing a firm scientific basis for the growing field of river restoration. It bridges the gap between the highly quantitative mechanics-based civil-engineering approach to stream hydraulics and the more qualitative treatments of fluvial geomorphology typical of earth sciences and natural resources curricula. Many concepts are illustrated using measurements of natural river flows." "The book is specifically designed for upper-level students and practitioners who want to gain a better understanding of river behavior. The bases of the equations that are used to describe and predict river flows are systematically presented, including dimensional analysis."--BOOK JACKET.

PEROVSKITES AND OTHER FRAMEWORK STRUCTURE CRYSTALLINE MATERIALS Jun 30 2022 Perovskites are among the most famous materials due to their exceptional properties: they present nearly all existing types of interesting properties, in particular as ferroics or multiferroics, they may be insulators, (super)conductors, or semiconductors, magnetoresistant, they are used in numerous devices, they present hundreds of variants and different crystalline phases and phase transitions, and recently appeared as probably the most promising materials for photovoltaics. With a crystal structure characterized by octahedra that share their corners, these materials belong to the wider category of «

Framework Structure (FWS) materials » the structure of which is based on units (octahedra, tetrahedra, ...) that share some of their corners (or edges) with their neighbours. This particular feature of FWS materials confers to them unique properties. This review volume is constituted of 26 chapters on different aspects, and is divided in two parts, « Fundamental aspects and general properties », and « Elaborated materials and applied properties ». Its main purpose is to attempt to identify the properties common to all members of the vast family of FWS materials, and understand their differences. Besides perovskites, derived compounds as 2D perovskites, Dion-Jacobson, Ruddlesden-Popper, Aurivillius, tungsten-bronzes, and others, are presented, and their preparation and/or properties as single crystals, ceramics, thin films, multilayers, nanomaterials, nanofibers, nanorods, etc, are discussed. We focus on new trends and important recent developments by leaving somewhat aside more classical aspects which can be easily found in older textbooks or review articles. Among most recent applications, this volume focuses on applications related with interactions with other molecules, on photovoltaics, and on memories, with a special attention to perovskite solar cells that have certainly attracted the most attention of researchers in recent years, opening extremely promising routes in photovoltaics. In conclusion, this book presents a collection of texts elucidating various aspects of the relation between structural organization (including dynamical aspects) and singular properties of framework crystals; it proposes a reasonable balance between experimental and theoretical results, and between fundamental aspects and applied properties. This volume can be approached on several levels (each chapter initially assumes that the reader is not a specialist in the subject, and is presented in a pedagogical way) : it is accessible to master or doctoral students, as well as to researchers who want to have informations on recent developments, who will find excellent detailed introductions up to hot subjects. It may also be used by undergraduate students who should approach given subjects. The volume contains 800 pages written by about 70 authors from different countries, it has an index, and is completed by numerous figures to illustrate the text.

Multi-level Mixed-Integer Optimization Apr 04 2020 This book provides the fundamental underlying mathematical theory, numerical algorithms and efficient computational tools for the solution of multi-level mixed integer optimization problems. It can enable a vast array of decision makers and engineers (e.g. process engineers, bioengineers, chemical and civil engineers, and economists) to model, formulate and solve hierarchical decision making problems. The book gives detailed insights on multi-level optimization by comprehensive explanations, step-by-step numerical examples and case studies, plots, and diagrams.

Computational Science - ICCS 2007 Dec 25 2021 Part of a four-volume set, this book constitutes the refereed proceedings of the 7th International Conference on Computational Science, ICCS 2007, held in Beijing, China in May 2007. The papers cover a large volume of topics in computational science and related areas, from multiscale physics to wireless networks, and from graph theory to tools for program development.

Discrete Mechanics, Geometric Integration and Lie–Butcher Series Jan 26 2022 This volume resulted from presentations given at the international “Brainstorming Workshop on New Developments in Discrete Mechanics, Geometric Integration and Lie–Butcher Series”, that took place at the Instituto de Ciencias Matemáticas (ICMAT) in Madrid, Spain. It combines overview and research articles on recent and ongoing developments, as well as new research directions. Why geometric numerical integration? In their article of the same title Arieh Iserles and Reinout Quispel, two renowned experts in numerical analysis of differential equations, provide a compelling answer to this question. After this introductory chapter a collection of high-quality research articles aim at exploring recent and ongoing developments, as well as new

research directions in the areas of geometric integration methods for differential equations, nonlinear systems interconnections, and discrete mechanics. One of the highlights is the unfolding of modern algebraic and combinatorial structures common to those topics, which give rise to fruitful interactions between theoretical as well as applied and computational perspectives. The volume is aimed at researchers and graduate students interested in theoretical and computational problems in geometric integration theory, nonlinear control theory, and discrete mechanics.

Advanced Cardiac Imaging Mar 04 2020 *Advances in Cardiac Imaging* presents the latest information on heart disease and heart failure, major causes of death among western populations. In addition, the text explores the financial burden to public healthcare trusts and the vast amount of research and funding being channeled into programs not only to prevent such diseases, but also to diagnose them in early stages. This book provides readers with a thorough overview of many advances in cardiac imaging. Chapters include technological developments in cardiac imaging and imaging applications in a clinical setting with regard to detecting various types of heart disease. Presents a thorough overview of cardiac imaging technology Addresses specific applications for a number of cardiac diseases and how they can improve diagnoses and treatment protocols Includes technological developments in cardiac imaging and imaging applications in a clinical setting

Characteristics and Implications of Surface Gravity Waves in the Littoral Zone of a Large Lake (Lake Constance) Dec 13 2020

Myocardial Imaging Jun 06 2020 In recent years, echocardiography has evolved from a qualitative diagnostic tool into a complex and sophisticated technique that is able to provide accurate, quantitative information driving the management of most cardiac diseases. Despite the availability, affordability and scientific value of advanced echocardiography techniques such as Tissue Doppler Imaging (TDI) and Speckle Tracking, there has been a lack of accessible information about their use in real-life medical practice. This practical book is the first comprehensive resource with truly international authorship covering the theory and clinical applications of advanced myocardial imaging as a diagnostic, monitoring and prognostic tool. • Edited by internationally recognized experts in cardiac imaging, *Myocardial Imaging: Tissue Doppler and Speckle Tracking* collates the latest research into a specific, in-depth resource. • The book focuses on how to use advanced cardiac imaging techniques in everyday clinical practice, presenting relevant material in a logical format. • Each chapter covers a different clinical application of TDI and Speckle Tracking techniques and is illustrated with full color images and tables, allowing quick and easy reference to clinically appropriate information. • It is accompanied by an invaluable CD of video clips that illustrate concepts in the text and provide real examples of echocardiography in practice. • Clear, concise key facts and summaries throughout the book enable fast decisions at point of care. This book is an invaluable resource for cardiologists, sonographers or other healthcare professionals who want to get the most out of the new technology available on echo machines.

Hydrogen and Syngas Production and Purification Technologies Jul 08 2020 Covers the timely topic of fuel cells and hydrogen-based energy from its fundamentals to practical applications Serves as a resource for practicing researchers and as a text in graduate-level programs Tackles crucial aspects in light of the new directions in the energy industry, in particular how to integrate fuel processing into contemporary systems like nuclear and gas power plants Includes homework-style problems

Adam's Gene and the Mitochondrial Eve Jun 18 2021 Rating: Excellent Reviewed by: Eric Jones It's become rather fashionable in literature today for authors to put a new spin on the link between science and religion. As both philosophies continue to collide, spin, and evolve into

one another readers have been treated to books like Genome Scientist Francis Collins' "Language of God", which presents religion from a scientific point of view, along with rebuttals like Richard Dawkins' "The God Delusion", but nobody makes an argument quite like Ahamed V.P. Kutty. In his similar exploration of these worlds, Kutty presents evidence in the face of a religious question often overlooked among Christians, Muslims, and Jewish practitioners. The question is simple: If incest is a sin, and Adam and Eve were the first humans created by God to conceive and populate the earth, then wouldn't their offspring be forced to mate with one another in order to achieve such ends? In essence, has God, or the creators of the Bible and Qur'an, created a situation where humanity must sin to survive? The answer, as always, is not as simple as the question. As the title might have given away, this is a book of scientific research which takes the writings of biblical scripture into account in order to achieve an answer. As such, it assumes that the reader is also religious. But not blindly so, as an overwhelming amount of scientists are turning to religion to solve the questions that they themselves cannot, it is no small readership that Kutty addresses. And his writing is cleverly detailed from both points of view so that ministers of faith will find it just as interesting as those of science. Answering the proposed thesis leads the reader on a journey through many questions that befuddle even the most devout religious followers. Where is the biblical Garden of Eden? How does religion account for the theory of evolution? Who are the real Adam and Eve? Is the Bible meant to be taken literally, or as hyperbole? Walking a middle path between the radical views of both science and religion is bound to offend fringe readers, but I think the majority of us tend to hold a similar middle ground. And for us, Kutty lays an overwhelming amount of evidence at our feet, which take all widely accepted viewpoints regarding the nature of evolution, the Garden of Eden, and the many different versions of Adam and Eve, into account. Often Kutty excludes the verbalized opinion that is so prominent in the works of his contemporaries, allowing the reader to connect the dots for themselves having looked over each textual exhibit. This layout is also helpful for quick reading, reference, and maintaining interest of laymen, like me, since all of these points are categorically organized and labeled. Each chapter begins with a clearly stated paragraph that elaborates on its title, and is often followed by the listing of evidence which lead the reader to the drawn conclusion. What Kutty is able to do, using this method, is clearly present his case without reducing anything to simple conjecture. Although this method does have a few minor holes since using evidence connecting so many different sources is sometimes thin. For instance, the use of a theory in general relativity to explain how angels of heaven might be able to travel through wormholes to get between Heaven and Earth is, according to Kutty himself, "not readily acceptable but feasible". In other words, there is only so much that science can explain. However, the research regarding DNA histories which trace ancestry back to an original Adam and Eve, (though admittedly not the Bible's Adam and Eve) is extremely positive. These many cases often provide a jumping point for those who wish to examine the issues more closely through the inclusion, at the end of each chapter, of a detailed bibliography. "Adam's Gene and the Mitochondrial Eve" is brilliant. It constructs a dazzling house of carefully implemente

Singing the Body Electric: The Human Voice and Sound Technology Oct 23 2021 Singing the Body Electric explores the relationship between the human voice and technology, offering startling insights into the ways in which technological mediation affects our understanding of the voice, and more generally, the human body. From the phonograph to magnetic tape and now to digital sampling, Miriama Young visits particular musical and literary works that define a century-and-a-half of recorded sound. She discusses the way in which the human voice is captured, transformed or synthesised through technology. This includes the sampled voice, the mechanical voice, the technologically modified

voice, the pliable voice of the digital era, and the phenomenon by which humans mimic the sounding traits of the machine. The book draws from key electro-vocal works spanning a range of genres - from Luciano Berio's *Thema: Omaggio a Joyce* to Radiohead, from Alvin Lucier's *I Am Sitting in a Room*, to Björk, and from Pierre Henry's *Variations on a Door and a Sigh* to Christian Marclay's *Maria Callas*. In essence, this book transcends time and musical style to reflect on the way in which the machine transforms our experience of the voice. The chapters are interpolated by conversations with five composers who work creatively with the voice and technology: Trevor Wishart, Katharine Norman, Paul Lansky, Eduardo Miranda and Bora Yoon. This book is an interdisciplinary enterprise that combines music aesthetics and musical analysis with literature and philosophy.

Coastal Structures 2011 Oct 03 2022 Coastal Structures are undergoing renewal and innovation to better serve the needs of our society, from environmental co-existence and habitat enhancement to risk management. The CSt2011 conference is the sixth in a series that highlights coastal disaster preparedness and ocean utilization in a changing climate. The conferences have frequently yielded milestone works and highly cited references in the field. Contents: Volume 1: THESEUS-Coastal Risks in a Changing Climate Sea Level Rise Wave Overtopping Simulator Coastal Structure Project Numerical Simulations Ocean Energy Rubble Mound & Berm Breakwaters Movable Structures Wave-Structure Interaction Wave Force Wave Runup and Overtopping Rubble Mound Breakwater & Wave Transmission Probabilistic Design & Life Cycle Evaluation Wave & Vertical Breakwater Interaction Volume 2: Artificial Blocks Stability of Blocks Numerical Modeling Numerical Wave-Structure Interaction Wave-Seabed-Structure Interaction Coastal Environment Storm Disaster Design Wave & Storm Surge Geotextile & Concrete Mattress Construction & Rehabilitation Case Studies Tsunami Wave Force Tsunami Prevention Measures Tsunami Simulation & Observation Shore Protection Erosion & Sediment Transport Geotechnical Design Poster Sessions Readership: Graduates and researcher in coastal engineering, ocean engineering, civil engineering and environmental engineering. Keywords: Coastal Structure; Storm; Tsunami; Coastal Disaster; Ocean Energy Key Features: Multidisciplinary topics from coastal disaster prevention to ocean energy utilization Newest research results at the forefront of the field Many world-reknowned authors

Geometry and Invariance in Stochastic Dynamics Mar 28 2022 This book grew out of the Random Transformations and Invariance in Stochastic Dynamics conference held in Verona from the 25th to the 28th of March 2019 in honour of Sergio Albeverio. It presents the new area of studies concerning invariance and symmetry properties of finite and infinite dimensional stochastic differential equations. This area constitutes a natural, much needed, extension of the theory of classical ordinary and partial differential equations, where the reduction theory based on symmetry and invariance of such classical equations has historically proved to be very important both for theoretical and numerical studies and has given rise to important applications. The purpose of the present book is to present the state of the art of the studies on stochastic systems from this point of view, present some of the underlying fundamental ideas and methods involved, and to outline the main lines for future developments. The main focus is on bridging the gap between deterministic and stochastic approaches, with the goal of contributing to the elaboration of a unified theory that will have a great impact both from the theoretical point of view and the point of view of applications. The reader is a mathematician or a theoretical physicist. The main discipline is stochastic analysis with profound ideas coming from Mathematical Physics and Lie Group Geometry. While the audience consists essentially of academicians, the reader can also be a practitioner with Ph.D., who is interested in efficient stochastic modelling.

Topological Data Analysis Jul 20 2021 This book gathers the proceedings of the 2018 Abel Symposium, which was held in Geiranger, Norway, on June 4-8, 2018. The symposium offered an overview of the emerging field of "Topological Data Analysis". This volume presents papers on various research directions, notably including applications in neuroscience, materials science, cancer biology, and immune response. Providing an essential snapshot of the status quo, it represents a valuable asset for practitioners and those considering entering the field.

Pattern Recognition Sep 21 2021 This book constitutes the refereed proceedings of the 42nd German Conference on Pattern Recognition, DAGM GCPR 2020, which took place during September 28 until October 1, 2020. The conference was planned to take place in Tübingen, Germany, but had to change to an online format due to the COVID-19 pandemic. The 34 papers presented in this volume were carefully reviewed and selected from a total of 89 submissions. They were organized in topical sections named: Normalizing Flow, Semantics, Physics, Camera Calibration and Computer Vision, Pattern Recognition, Machine Learning.

The Application of Hydraulic and Sediment Transport Models in Fluvial Geomorphology Sep 02 2022 After publishing the famous "Fluvial Processes in Geomorphology" in the early 1960s, the work of Luna Leopold, Gordon Wolman, and John Miller became a key for opening the door to understanding rivers and streams. They first illustrated the problem to geomorphologists and geographers. Later, Chang, in his "Fluvial Processes in River Engineering", provided a basis for engineers, showing this group of professionals how to deal with rivers and how to understand them. Since then, more informative studies have been published. Many of the authors started to combine fluvial geomorphology knowledge and river engineering needs, such as "Tools in Fluvial Geomorphology" by G. Mathias Kondolf and Hervé Piégay, or focused more on river engineering tasks, such as "Stream Restoration in Dynamic Fluvial Systems: Scientific Approaches" by Andrew Simon, Sean Bennett, and Janine Castro. Finally, Luna Leopold summarized river and stream morphologies in the beautiful "A view of the river". It appears that we continue to explore this subject in the right direction. We better understand rivers and streams, and as engineers and fluvial geomorphologists, we can establish tools to help bring rivers alive. However, there is still a hunger for more scientific tools that we could use to further understand rivers and to support the development of healthy streams and rivers with high biodiversity in the present world, which has started to face water scarcity.

Current Topics in Hypothyroidism with Focus on Development Jun 26 2019 Do you regard hypothyroidism as a more complex issue than just a simple prescription of levothyroxine tablet? Are you interested in getting more information on the management of thyroid dysfunction in pregnancy, at birth, in childhood or in subclinical states? Have you been thinking of performing thyroid ultrasound in hypothyroid patients by yourself, or perhaps you already do it and are not so sure about it? Than this book should give you some answers and help you form your own opinion. You will find there several excellent review articles from authors from all over the world.

Desalination Updates Aug 28 2019 Desalination Update illustrates the growing research and development activities in the field of desalination of water. The chapters in this book also show the close link in the supply of water and supply of power. Power is needed to desalinate water, and water is needed to produce power via steam and cooling water. As the world is becoming increasingly in need of water and power, the education of generations of new workers in these technologies makes the publications of these books of rising importance. Students and specialists alike will find branching strands in this field of development worthy of dedication of careers. Never has shrinking essential resources and exploding needs confront mankind as much as water. Excellent reviews in this book provide keywords, concepts, and

current knowledge and status of practice useful for teaching and continued evolution.

The Philosophy and Physics of Noether's Theorems May 06 2020 In 1918, Emmy Noether, in her paper *Invariante Variationsprobleme*, proved two theorems (and their converses) on variational problems that went on to revolutionise theoretical physics. 100 years later, the mathematics of Noether's theorems continues to be generalised, and the physical applications of her results continue to diversify. This centenary volume brings together world-leading historians, philosophers, physicists, and mathematicians in order to clarify the historical context of this work, its foundational and philosophical consequences, and its myriad physical applications. Suitable for advanced undergraduate and graduate students and professional researchers, this is a go-to resource for those wishing to understand Noether's work on variational problems and the profound applications which it finds in contemporary physics.

Comprehensive Energy Systems Feb 24 2022 *Comprehensive Energy Systems* provides a unified source of information covering the entire spectrum of energy, one of the most significant issues humanity has to face. This comprehensive book describes traditional and novel energy systems, from single generation to multi-generation, also covering theory and applications. In addition, it also presents high-level coverage on energy policies, strategies, environmental impacts and sustainable development. No other published work covers such breadth of topics in similar depth. High-level sections include Energy Fundamentals, Energy Materials, Energy Production, Energy Conversion, and Energy Management. Offers the most comprehensive resource available on the topic of energy systems Presents an authoritative resource authored and edited by leading experts in the field Consolidates information currently scattered in publications from different research fields (engineering as well as physics, chemistry, environmental sciences and economics), thus ensuring a common standard and language

The Patient's Wish to Die Nov 04 2022 *Wish to die* statements are becoming a frequent phenomenon in terminally ill patients. Those confronted by these statements need to understand the complexity of such wishes, so they can respond competently and compassionately to the requests. If misunderstood, the statements can be taken at face-value and the practitioner may not recognise that a patient is in fact experiencing ambivalent feelings at the end of life, or they may misinterpret the expressed wish to die as a sign of clinical depression. Public debate about the morality and ethics of various end-of-life care options has exploded in recent years. However, it has never been sensitive to the finer aspects of clinical reality or the experiences of patients. *The Patient's Wish to Die: Research, Ethics, and Palliative Care* brings together that reality and the patient's voice, combining them with different research approaches. It presents the best available knowledge and research methodologies about patients' wishes at the end-of-life, together with a series of ethical views and a discussion about the clinical implications for palliative care. The book presents material in an open and unbiased manner whilst remaining sensitive to the spiritual and existential dimensions of dying, and to the different cultural views that provide meaning to the individual. Written by the best specialists and ethics scholars from around the world, including palliative care practitioners and end-of-life scholars from countries where assisted dying practices are legalized and from those where it isn't, *The Patient's Wish to Die: Research, Ethics, and Palliative Care* will prove essential reading for all those working or studying in the field of palliative care.

Ways Ahead Aug 01 2022 The first international Csound conference, held at the Hanover University of Music, Drama and Media (HMTMH) between 30th September and 2nd October 2011, marked the first time that the principal people involved with Csound – in existence since 1986 – met in person. This book documents not only the proceedings of this conference through its inclusion of the featured papers, workshop

descriptions and round table summaries, but also includes interviews with developers and musicians, along with several new articles written exclusively for this publication. Reflecting the diversity of contributions to the Csound project that conference attendees brought, this book is organised into five main parts entitled “History”, “Development”, “Music”, “Usage” and “Education”.

Real-Time Optimization Nov 23 2021 This book is a printed edition of the Special Issue "Real-Time Optimization" that was published in Processes

The Place of the Mosque Oct 11 2020 The Place of the Mosque probes a host of discursive formations—spaces of public assembly and social interaction, quotidian practices, disputed sites, and biopolitics—while critiquing their peculiar anomalies. It goes beyond architectural criticism to emphasize the interdisciplinary and transdisciplinary study of place and space.

Renewable Energy Resources Sep 29 2019 Renewable Energy Resources is a numerate and quantitative text covering the full range of renewable energy technologies and their implementation worldwide. Energy supplies from renewables (such as from biofuels, solar heat, photovoltaics, wind, hydro, wave, tidal, geothermal, and ocean-thermal) are essential components of every nation’s energy strategy, not least because of concerns for the local and global environment, for energy security and for sustainability. Thus in the years between the first and this third edition, most renewable energy technologies have grown from fledgling impact to significant importance because they make good sense, good policy and good business. This Third Edition is extensively updated in light of these developments, while maintaining the book’s emphasis on fundamentals, complemented by analysis of applications. Renewable energy helps secure national resources, mitigates pollution and climate change, and provides cost effective services. These benefits are analysed and illustrated with case studies and worked examples. The book recognises the importance of cost effectiveness and efficiency of end-use. Each chapter begins with fundamental scientific theory, and then considers applications, environmental impact and socio-economic aspects before concluding with Quick Questions for self-revision and Set Problems. The book includes Reviews of basic theory underlying renewable energy technologies, such as electrical power, fluid dynamics, heat transfer and solid-state physics. Common symbols and cross-referencing apply throughout; essential data are tabulated in appendices. An associated eResource provides supplementary material on particular topics, plus a solutions guide to Set Problems. Renewable Energy Resources supports multi-disciplinary master degrees in science and engineering, and specialist modules in first degrees. Practising scientists and engineers who have not had a comprehensive training in renewable energy will find it a useful introductory text and a reference book.

Durability Design of Concrete Structures in Severe Environments, Second Edition Apr 28 2022 One of the most pressing problems facing the construction industry globally is the deterioration of major concrete infrastructure in marine and other chloride-containing environments. While recent advancements in concrete technology have made it easier to control the negative impact of deteriorating processes such as alkali-aggregate reaction, freezing and thawing and chemical attack, chloride-induced corrosion of embedded steel continues to pose the biggest threat to structure durability and performance. The second edition of Durability Design of Concrete Structures in Severe Environments focuses on enhancing the durability and service life of concrete structures. The text describes field experience and deteriorating processes of concrete structures in severe environments, and includes current data based on extensive field investigations. It presents a durability design based on calculation of corrosion probability, and outlines additional protective strategies and measures. The text also describes procedures for

performance-based concrete quality control and quality assurance with documentation of achieved construction quality and compliance with specified durability. The text further covers calculation of life cycle costs and life cycle assessment, and includes some new recommended job specifications. What's New in the Second Edition: This second edition delivers more results and experience from practical applications of the probability-based durability design and the performance-based concrete quality control. It includes recent commercial projects both for Oslo Harbor KF and Nye Tjuvholmen KS in Oslo, and contains some preliminary results from the more comprehensive research program "Underwater Infrastructure and Underwater City of the Future" at Nanyang Technological University in Singapore. The book serves as an essential guide both for the owners and the consulting and construction engineers involved in new and major concrete infrastructure design and construction.

Tuzo Dec 01 2019 Tuzo is the never-before-told story of one of Canada's most influential scientists and the discovery of plate tectonics, a pivotal development that forever altered how we think of our planet. In 1961, a Canadian geologist named John "Jock" Tuzo Wilson (1908–1993) jettisoned decades of strongly held opposition to theories of moving continents and embraced the idea that they drift across the surface of the Earth. Tuzo tells the fascinating life story of Tuzo Wilson, from his early forays as a teenaged geological assistant working on the remote Canadian Shield in the 1920s to his experiences as a civilian-soldier in the Second World War to his ultimate role as the venerated father of plate tectonics. Illuminating how science is done, this book blends Tuzo's life story with the development of the theory of plate tectonics, showing along the way how scientific theories are debated, rejected, and accepted. Gorgeously illustrated, Tuzo will appeal to anyone interested in the natural world around them.

Twenty-Seventh International Congress on Large Dams Vingt-Septième Congrès International des Grands Barrages May 18 2021 The International Committee on Large Dams (ICOLD) held its 27th International Congress in Marseille, France (12-19 November 2021). The proceedings of the congress focus on four main questions: 1. Reservoir sedimentation and sustainable development; 2. Safety and risk analysis; 3. Geology and dams, and 4. Small dams and levees. The book thoroughly discusses these questions and is indispensable for academics, engineers and professionals involved or interested in engineering, hydraulic engineering and related disciplines.