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Proceedings of 2013 Chinese Intelligent Automation Conference

In the 25 years since the first edition of Comprehensive Gynecology, many scientific advances have occurred in medical practice. The first four editions were largely the work of the original four editors: Drs. William Droegemueller, Arthur L. Herbst, Daniel R. Mishell, Jr., and Morton A. Stenchever. With the staggering volume of medical literature published and the complexities of the gynecologic subspecialties, we have collaborated with additional experts for the sixth edition. We've "examined disease" and added a new chapter on the interaction of medical diseases and female physiology. We've "investigated discord" with new authors to completely rewrite the emotional and psychological issues in gynecology and the legal issues for obstetrician-gynecologists. Other chapters have delved into the controversies in breast cancer screening, vitamin D use, the ongoing debates in hormone therapy, and vaginal mesh use for pelvic organ prolapse surgery. (from Preface -- MD Consult, viewed April 9, 2012)

Energy-Efficient Wireless Sensor Networks

This clinical casebook provides a comprehensive yet concise state-of-the-art review of adult critical care medicine. Presented in a case-based format, each case focuses on a scenario commonly encountered with an adult patient in the ICU. Case scenarios include management of seizures and acute intracranial hypertension, sepsis, liver failure, brain death, bleeding and thrombosis, and treating hospital acquired infections in the ICU. Written by experts in the field, Adult Critical Care Medicine: A Clinical Casebook is a valuable resource for critical care specialists and practitioners who treat adult patients in critical care settings.

Extranodal Lymphomas

Given the immense progress achieved in elucidating protein-protein complex structures and in the field of protein interaction modeling, there is great demand for a book that gives interested researchers/students a comprehensive overview of the field. This book does just that. It focuses on what can be learned about protein-protein interactions from the analysis of protein-protein complex structures and interfaces. What are the driving forces for protein-protein association? How can we extract the mechanism of specific recognition from studying protein-protein interfaces? How can this knowledge be used to predict and design protein-protein interactions (interaction regions and complex structures)? What methods are currently employed to design protein-protein interactions, and how can we influence protein-protein interactions by mutagenesis and small-molecule drugs or peptide mimetics? The book consists of about 15 review chapters, written by experts, on the characterization of protein-protein interfaces, structure determination of protein complexes (by NMR and X-ray), theory of protein-protein binding, dynamics of protein interfaces, bioinformatics methods to predict interaction regions, and prediction of protein-protein complex structures (docking and homology modeling of complexes, etc.) and design of protein-protein interactions. It serves as a bridge between studying/analyzing protein-protein complex structures (interfaces), predicting interactions, and influencing/designing interactions.

Citizen Science

"A timely and important new book! It should be our North Star for the recovery and beyond." -Hillary Clinton From one of our wisest and most influential economic thinkers, the only person to serve as Director of the National Economic Council under two Presidents, a profound big-picture vision of why the promotion of dignity should be the singular end goal by which we chart America's economic future When Gene Sperling was in charge of coordinating the shaping and execution of the US government's economic policy in the Obama White House, he found himself surprised and dismayed when serious people in Washington worried out loud to him that the Obama focus on health care was a distraction because it was "not focused on the economy." How, he asked, was millions of Americans' fear that they were a single pink slip or a loved one's serious illness away from financial ruin somehow not considered an economic issue? To him, it was just one more example of a more profound truth he witnessed in his many years in our national economic debate: that when it comes to America's economic policy, there is too little focus on what the end goal should be. Too often, he found that our economic debate confused ends and means; that we measured economic success by metrics like GDP instead of whether the economy was succeeding in lifting up the sense of meaning, purpose, fulfillment, and security of people. Too often, he found debates framed by old divisions or pro-market ideology that increasingly failed to capture whether economic policy was fostering exploitation, economic insecurity, and disillusionment that were too often invisible within our current framework. Now more than ever, at a moment when the very capacity of modern capitalism to avoid accelerating inequality, a hollowed-out middle class, and structural poverty is being questioned, we need to step back and reflect on our ultimate goals. Economic Dignity is Sperling's effort to do just that - to frame our thinking about

the way forward in a time of wrenching economic change. His argument combines moral and intellectual seriousness with actual high-level policy experience. Economic dignity, Sperling maintains, can be seen as resting on three pillars. The first: the capacity to care for family without economic deprivation denying people the capacity to experience its greatest joys - the birth of one's children, the companionship of a loving partner, the love of family and friends, the fulfillment that comes from providing. The second: the right to the pursuit of potential and purpose, including the right to first and second chances - the right to a life of active striving. The third: economic participation with respect and without domination and humiliation. All three pillars are rooted in the highest and most noble values of the American project. But getting there is the rub, and in *Economic Dignity*, Sperling offers paths that policymakers and citizens can follow for years to come. As he puts it, if you live in times when major steps forward are needed, it is important to be clear on your destination - or at least to know the North Star that is guiding you. His answer, in two words, is economic dignity.

Computer Vision

A New York Times bestseller An astonishing—and astonishingly entertaining—history of Hollywood’s transformation over the past five decades as seen through the agency at the heart of it all, from the #1 bestselling co-author of *Live from New York and Those Guys Have All the Fun*. The movies you watch, the TV shows you adore, the concerts and sporting events you attend—behind the curtain of nearly all of these is an immensely powerful and secretive corporation known as Creative Artists Agency. Started in 1975, when five bright and brash employees of a creaky William Morris office left to open their own, strikingly innovative talent agency, CAA would come to revolutionize the entertainment industry, and over the next several decades its tentacles would spread aggressively throughout the worlds of movies, television, music, advertising, and investment banking. *Powerhouse* is the fascinating, no-holds-barred saga of that ascent. Drawing on unprecedented and exclusive access to the men and women who built and battled with CAA, as well as financial information never before made public, author James Andrew Miller spins a tale of boundless ambition, ruthless egomania, ceaseless empire building, greed, and personal betrayal. It is also a story of prophetic brilliance, magnificent artistry, singular genius, entrepreneurial courage, strategic daring, foxhole brotherhood, and how one firm utterly transformed the entertainment business. Here are the real *Star Wars*—complete with a *Death Star*—told through the voices of those who were there. Packed with scores of stars from movies, television, music, and sports, as well as a tremendously compelling cast of agents, studio executives, network chiefs, league commissioners, private equity partners, tech CEOs, and media tycoons, *Powerhouse* is itself a Hollywood blockbuster of the most spectacular sort.

Professional Management of Housekeeping Operations

Computer Vision: Algorithms and Applications explores the variety of techniques commonly used to analyze and interpret images. It also describes challenging real-world applications where vision is being successfully used, both for specialized applications such as medical imaging, and for fun, consumer-level tasks such as image editing and stitching, which students can apply to their own personal photos

and videos. More than just a source of “recipes,” this exceptionally authoritative and comprehensive textbook/reference also takes a scientific approach to basic vision problems, formulating physical models of the imaging process before inverting them to produce descriptions of a scene. These problems are also analyzed using statistical models and solved using rigorous engineering techniques. Topics and features: structured to support active curricula and project-oriented courses, with tips in the Introduction for using the book in a variety of customized courses; presents exercises at the end of each chapter with a heavy emphasis on testing algorithms and containing numerous suggestions for small mid-term projects; provides additional material and more detailed mathematical topics in the Appendices, which cover linear algebra, numerical techniques, and Bayesian estimation theory; suggests additional reading at the end of each chapter, including the latest research in each sub-field, in addition to a full Bibliography at the end of the book; supplies supplementary course material for students at the associated website, <http://szeliski.org/Book/>. Suitable for an upper-level undergraduate or graduate-level course in computer science or engineering, this textbook focuses on basic techniques that work under real-world conditions and encourages students to push their creative boundaries. Its design and exposition also make it eminently suitable as a unique reference to the fundamental techniques and current research literature in computer vision.

Evolution's Rainbow

Citizen science, the active participation of the public in scientific research projects, is a rapidly expanding field in open science and open innovation. It provides an integrated model of public knowledge production and engagement with science. As a growing worldwide phenomenon, it is invigorated by evolving new technologies that connect people easily and effectively with the scientific community. Catalysed by citizens' wishes to be actively involved in scientific processes, as a result of recent societal trends, it also offers contributions to the rise in tertiary education. In addition, citizen science provides a valuable tool for citizens to play a more active role in sustainable development. This book identifies and explains the role of citizen science within innovation in science and society, and as a vibrant and productive science-policy interface. The scope of this volume is global, geared towards identifying solutions and lessons to be applied across science, practice and policy. The chapters consider the role of citizen science in the context of the wider agenda of open science and open innovation, and discuss progress towards responsible research and innovation, two of the most critical aspects of science today.

Adult Critical Care Medicine

An evolutionary biologist explores the concept of culture and how it influenced our collective human behaviors from the beginning of evolution through modern times and offers new insights on how art, morality and altruism and self-interest define being human. 20,000 first printing.

A History of the Photographic Lens

This monograph is the first survey of neural approaches to conversational AI that targets Natural Language Processing and Information Retrieval audiences. It provides a comprehensive survey of the neural approaches to conversational AI that have been developed in the last few years, covering QA, task-oriented and social bots with a unified view of optimal decision making. The authors draw connections between modern neural approaches and traditional approaches, allowing readers to better understand why and how the research has evolved and to shed light on how they can move forward. They also present state-of-the-art approaches to training dialogue agents using both supervised and reinforcement learning. Finally, the authors sketch out the landscape of conversational systems developed in the research community and released in industry, demonstrating via case studies the progress that has been made and the challenges that are still being faced. *Neural Approaches to Conversational AI* is a valuable resource for students, researchers, and software developers. It provides a unified view, as well as a detailed presentation of the important ideas and insights needed to understand and create modern dialogue agents that will be instrumental to making world knowledge and services accessible to millions of users in ways that seem natural and intuitive.

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"Every NP should own a copy of this book!" - The Nurse Practitioner Journal
Written by a nurse practitioner who is also a practicing attorney, *Nurse Practitioner's Business Practice and Legal Guide, Second Edition* provides the unique point of view of an author who knows what legal and business problems arise on a daily basis. The second edition to this best seller will teach you: --How to write an effective business plan using the most up-to-date information and planning strategies--How to avoid malpractice and other lawsuits--What rights an employed NP has--What to do if rejected for payment--How to effectively negotiate managed care contracts--How to get the highest marks on performance report cards--What must take place for NPs to become primary care providers--What decisions need to be made before starting a practice--How to handle patient flow--And more!
Nurse practitioners and NP students who read this book will have a solid foundation of knowledge with which they may continue their practice confidently and effectively, whether it be in developing an employment relationship, undertaking a business venture, giving testimony before the state legislature, composing a letter to an insurance company about an unpaid bill, teaching at a school of nursing, or serving as president of a state or national organization.

Intelligent Computer Mathematics

Written for an advanced-level course in digital systems design, *DIGITAL SYSTEMS DESIGN USING VHDL* integrates the use of the industry-standard hardware description language VHDL into the digital design process. Following a review of basic concepts of logic design, the author introduces the basics of VHDL, and then incorporates more coverage of advanced VHDL topics. Rather than simply teach VHDL as a programming language, this book emphasizes the practical use of VHDL in the digital design process.

The Fibroblast Growth Factor Family

DIGITAL SYSTEMS DESIGN USING VERILOG integrates coverage of logic design principles, Verilog as a hardware design language, and FPGA implementation to help electrical and computer engineering students master the process of designing and testing new hardware configurations. A Verilog equivalent of authors Roth and John's previous successful text using VHDL, this practical book presents Verilog constructs side-by-side with hardware, encouraging students to think in terms of desired hardware while writing synthesizable Verilog. Following a review of the basic concepts of logic design, the authors introduce the basics of Verilog using simple combinational circuit examples, followed by models for simple sequential circuits. Subsequent chapters ask readers to tackle more and more complex designs. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Wired for Culture: Origins of the Human Social Mind

Lymphomas classically manifest themselves in the lymph nodes but can also present in other bodily tissues or systems; the organ where exactly they present may make a very great difference to the strategy that should be adopted for their management. This topic has only recently been consistently addressed as an issue on its own, apart from the rest

High-dimensional Knot Theory

MOST (Media Oriented Systems Transport) is a multimedia network technology developed to enable an efficient transport of streaming, packet and control data in an automobile. It is the communication backbone of an infotainment system in a car. MOST can also be used in other product areas such as driver assistance systems and home applications.

Autophagy

In this innovative celebration of diversity and affirmation of individuality in animals and humans, Joan Roughgarden challenges accepted wisdom about gender identity and sexual orientation. A distinguished evolutionary biologist, Roughgarden takes on the medical establishment, the Bible, social science—and even Darwin himself. She leads the reader through a fascinating discussion of diversity in gender and sexuality among fish, reptiles, amphibians, birds, and mammals, including primates. *Evolution's Rainbow* explains how this diversity develops from the action of genes and hormones and how people come to differ from each other in all aspects of body and behavior. Roughgarden reconstructs primary science in light of feminist, gay, and transgender criticism and redefines our understanding of sex, gender, and sexuality. Witty, playful, and daring, this book will revolutionize our understanding of sexuality. Roughgarden argues that principal elements of Darwinian sexual selection theory are false and suggests a new theory that emphasizes social inclusion and control of access to resources and mating opportunity. She disputes a range of scientific and medical concepts, including Wilson's genetic determinism of behavior, evolutionary psychology, the existence

of a gay gene, the role of parenting in determining gender identity, and Dawkins's "selfish gene" as the driver of natural selection. She dares social science to respect the agency and rationality of diverse people; shows that many cultures across the world and throughout history accommodate people we label today as lesbian, gay, and transgendered; and calls on the Christian religion to acknowledge the Bible's many passages endorsing diversity in gender and sexuality. *Evolution's Rainbow* concludes with bold recommendations for improving education in biology, psychology, and medicine; for democratizing genetic engineering and medical practice; and for building a public monument to affirm diversity as one of our nation's defining principles.

Static Electricity

Provides students and practitioners with the latest data on how to open, operate and manage housekeeping in a hotel or motel. Presents material in the order of responsibilities encountered by someone assigned to open a new facility and uses an authentic facility model throughout. New to this edition is a chapter on environmental services which covers hospitals and health care institutions, elementary microbiology, infectious waste control and disposal; additional information on material management with attention to OSHA requirements for handling cleaning supplies and chemicals; an expanded chapter on loss prevention, security surveys and liability due to negligence; and detailed coverage on budgeting a rooms department for a commercial hotel.

Translation Quality Assessment

This is the first volume that brings together research and practice from academic and industry settings and a combination of human and machine translation evaluation. Its comprehensive collection of papers by leading experts in human and machine translation quality and evaluation who situate current developments and chart future trends fills a clear gap in the literature. This is critical to the successful integration of translation technologies in the industry today, where the lines between human and machine are becoming increasingly blurred by technology: this affects the whole translation landscape, from students and trainers to project managers and professionals, including in-house and freelance translators, as well as, of course, translation scholars and researchers. The editors have broad experience in translation quality evaluation research, including investigations into professional practice with qualitative and quantitative studies, and the contributors are leading experts in their respective fields, providing a unique set of complementary perspectives on human and machine translation quality and evaluation, combining theoretical and applied approaches.

Water-Quality Hydrology

Starting in the early 1970s, a type of programmed cell death called apoptosis began to receive attention. Over the next three decades, research in this area continued at an accelerated rate. In the early 1990s, a second type of programmed cell death, autophagy, came into focus. Autophagy has been studied in mammalian cells for many years. The recen

Digital Systems Design Using VHDL

Water is vital to life, maintenance of ecological balance, economic development, and sustenance of civilization. Planning and management of water resources and its optimal use are a matter of urgency for most countries of the world, and even more so for India with a huge population. Growing population and expanding economic activities exert increasing demands on water for varied needs--domestic, industrial, agricultural, power generation, navigation, recreation, etc. In India, agriculture is the highest user of water. The past three decades have witnessed numerous advances as well as have presented intriguing challenges and exciting opportunities in hydrology and water resources. Compounding them has been the growing environmental consciousness. Nowhere are these challenges more apparent than in India. As we approach the twenty first century, it is entirely fitting to take stock of what has been accomplished and what remains to be accomplished, and what accomplishments are relevant, with particular reference to Indian conditions.

Powerhouse

The Syntax Workbook was written as a response to the students and instructors who, over the years, have requested more problem sets that give greater experience in analyzing syntactic structure. Aligned chapter-by-chapter with Carnie's bestselling textbook, this workbook provides over 120 new exercises on all of the major topics in generative syntax. An all-new workbook to accompany the bestselling syntax textbook, *Syntax: A Generative Introduction*, which answers the need for a practical text in this field. Features over 120 problem sets with answers, designed to give students greater experience of analyzing syntactic structure. Exercises and topics covered includes phrase structure, the lexicon, Case theory, ellipsis, auxiliaries, movement, covert movement, locality conditions, VP shells, and control. Supported by expanded online content. <http://bcs.wiley.com/hee-bcs/Books?action=index&itemId=0470655313&bcsId=7378> student and instructor resources, including extra chapters on HPSG, LFG and time-saving materials for lecturers, including problem sets, PowerPoint slides, and an instructors' manual. Structured to reflect the style and chapter-by-chapter coverage of the textbook, but its practical, reader-friendly layout also makes it suitable for use as a stand-alone Workbook.

The Syntax Workbook

This book constitutes the refereed proceedings of the 9th International Conference on Intelligent Computer Mathematics, CICM 2016, held in Bialystok, Poland, in July 2016. The 10 full papers and 2 short papers presented were carefully reviewed and selected from a total of 41 submissions. The papers are organized in topical sections according to the five tracks of the conference: Calculus; Digital Mathematics Libraries; Mathematical Knowledge Management; Surveys and Projects; and Systems and Data.

Finding Ellipses: What Blaschke Products, Poncelet's Theorem,

and the Numerical Range Know about Each Other

This Volume of the series Cardiac and Vascular Biology offers a comprehensive and exciting, state-of-the-art work on the current options and potentials of cardiac regeneration and repair. Several techniques and approaches have been developed for heart failure repair: direct injection of cells, programming of scar tissue into functional myocardium, and tissue-engineered heart muscle support. The book introduces the rationale for these different approaches in cell-based heart regeneration and discusses the most important considerations for clinical translation. Expert authors discuss when, why, and how heart muscle can be salvaged. The book represents a valuable resource for stem cell researchers, cardiologists, bioengineers, and biomedical scientists studying cardiac function and regeneration.

Nurse Practitioner's Business Practice and Legal Guide

This reference surveys current best practices in the prevention and management of ventilator-induced lung injury (VILI) and spans the many pathways and mechanisms of VILI including cell injury and repair, the modulation of alveolar-capillary barrier properties, and lung and systemic inflammatory consequences of injurious mechanical ventilation. Considering many emerging therapeutic options, this guide also reviews the wide array of clinical studies on lung protection strategies and approaches to ARDS patients at risk for VILI.

Histories of State Surveillance in Europe and Beyond

The Show I'll Never Forget

Does the development of new technology cause an increase in the level of surveillance used by central government? Is the growth in surveillance merely a reaction to terrorism, or a solution to crime control? Are there more structural roots for the increase in surveillance? This book attempts to find some answers to these questions by examining how governments have increased their use of surveillance technology. Focusing on a range of countries in Europe and beyond, this book demonstrates how government penetration into private citizens' lives was developing years before the 'war on terrorism.' It also aims to answer the question of whether central government actually has penetrated ever deeper into the lives of private citizens in various countries inside and outside of Europe, and whether citizens are protected against it, or have fought back. The main focus of the volume is on how surveillance has shaped the relationship between the citizen and the State. The contributors and editors of the volume look into the question of how central government came to intrude on citizens' private lives from two perspectives: identification card systems and surveillance in post-authoritarian societies. Their aim is to present the heterogeneity of the European historical surveillance past in the hope that this might shed light on current trends. Essential reading for criminologists, sociologists and political scientists alike, this book provides some much-needed historical context on a highly topical issue.

Topology of 4-Manifolds (PMS-39), Volume 39

Comprehensive Gynecology

The lens is generally the most expensive and least understood part of any camera. In this book, Rudolf Kingslake traces the historical development of the various types of lenses from Daguerre's invention of photography in 1839 through lenses commonly used today. From an early lens still being manufactured for use in low-cost cameras to designs made possible through such innovations as lens coating, rare-earth glasses, and computer aided lens design and testing, the author details each major advance in design and fabrication. The book explains how and why each new lens type was developed, and why most of them have since been abandoned. This authoritative history of lens technology also includes brief biographies of several outstanding lens designers and manufacturers of the past.

Ventilator-Induced Lung Injury

Written by world-renowned experts on the topic with many years of research and consultancy experience, this invaluable book provides the practitioners' perspective, outlining the dangers and benefits of static electricity in industry. The first chapter reviews the fundamentals of understanding fires and explosions in general and electricity-induced ignition in particular, while the following chapter is dedicated to the origins of static electricity in industrial settings, such as in flowing gases and the transport of disperse systems. The major part of the text deals with measuring static electricity, elimination of unwanted charges and hazard prevention under different conditions. It concludes with an overview of practical applications in chemical and mechanical engineering. Throughout the book, real-life case studies illustrate the fundamental aspects so as to further an understanding of how to control and apply static electricity and thus reduce material damages as well as increase occupational safety. Plus additional movie sequences on the dedicated website showing static electricity in action.

The Safe Place

This volume contains cutting-edge research from leading experts in ergodic theory, dynamical systems and group actions. A large part of the volume addresses various aspects of ergodic theory of general group actions including local entropy theory, universal minimal spaces, minimal models and rank one transformations. Other papers deal with interval exchange transformations, hyperbolic dynamics, transfer operators, amenable actions and group actions on graphs.

MOST

Proceedings of the 2013 Chinese Intelligent Automation Conference presents selected research papers from the CIAC'13, held in Yangzhou, China. The topics include e.g. adaptive control, fuzzy control, neural network based control, knowledge based control, hybrid intelligent control, learning control, evolutionary mechanism based control, multi-sensor integration, failure diagnosis, and

reconfigurable control. Engineers and researchers from academia, industry, and government can gain an inside view of new solutions combining ideas from multiple disciplines in the field of intelligent automation. Zengqi Sun and Zhidong Deng are professors at the Department of Computer Science, Tsinghua University, China.

Neural Approaches to Conversational AI: Question Answering, Task-Oriented Dialogues and Social Chatbots

Mathematicians delight in finding surprising connections between seemingly disparate areas of mathematics. Whole domains of modern mathematics have arisen from exploration of such connections--consider analytic number theory or algebraic topology. Finding Ellipses is a delight-filled romp across a three-way unexpected connection between complex analysis, linear algebra, and projective geometry. The book begins with Blaschke products, complex-analytic functions that are generalizations of disk automorphisms. In the analysis of Blaschke products, we encounter, in a quite natural way, an ellipse inside the unit disk. The story continues by introducing the reader to Poncelet's theorem--a beautiful result in projective geometry that ties together two conics and, in particular, two ellipses, one circumscribed by a polygon that is inscribed in the second. The Blaschke ellipse and the Poncelet ellipse turn out to be the same ellipse, and the connection is illuminated by considering the numerical range of a 2×2 matrix. The numerical range is a convex subset of the complex plane that contains information about the geometry of the transformation represented by a matrix. Through the numerical range of $n \times n$ matrices, we learn more about the interplay between Poncelet's theorem and Blaschke products. The story ranges widely over analysis, algebra, and geometry, and the exposition of the deep and surprising connections is lucid and compelling. Written for advanced undergraduates or beginning graduate students, this book would be the perfect vehicle for an invigorating and enlightening capstone exploration. The exercises and collection of extensive projects could be used as an embarkation point for a satisfying and rich research project. You are invited to read actively using the accompanying interactive website, which allows you to visualize the concepts in the book, experiment, and develop original conjectures.

Protein-protein Complexes

This book is a printed edition of the Special Issue "Sustainable Business Models" that was published in Sustainability

Economic Dignity

Bringing together many results previously scattered throughout the research literature into a single framework, this work concentrates on the application of the author's algebraic theory of surgery to provide a unified treatment of the invariants of codimension 2 embeddings, generalizing the Alexander polynomials and Seifert forms of classical knot theory.

Digital Systems Design Using Verilog

One of the great achievements of contemporary mathematics is the new understanding of four dimensions. Michael Freedman and Frank Quinn have been the principals in the geometric and topological development of this subject, proving the Poincaré and Annulus conjectures respectively. Recognition for this work includes the award of the Fields Medal of the International Congress of Mathematicians to Freedman in 1986. In *Topology of 4-Manifolds* these authors have collaborated to give a complete and accessible account of the current state of knowledge in this field. The basic material has been considerably simplified from the original publications, and should be accessible to most graduate students. The advanced material goes well beyond the literature; nearly one-third of the book is new. This work is indispensable for any topologist whose work includes four dimensions. It is a valuable reference for geometers and physicists who need an awareness of the topological side of the field. Originally published in 1990. The Princeton Legacy Library uses the latest print-on-demand technology to again make available previously out-of-print books from the distinguished backlist of Princeton University Press. These editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions. The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905.

Review of culture

Dynamical Systems and Group Actions

Superbly tense and oozing with atmosphere, Anna Downes's debut, *The Safe Place*, is the perfect summer suspense, with the modern gothic feel of Ruth Ware and the morally complex family dynamics of Lisa Jewell. Welcome to paradise will you ever be able to leave? Emily is a mess. Emily Proudman just lost her acting agent, her job, and her apartment in one miserable day. Emily is desperate. Scott Denny, a successful and charismatic CEO, has a problem that neither his business acumen nor vast wealth can fix. Until he meets Emily. Emily is perfect. Scott offers Emily a summer job as a housekeeper on his remote, beautiful French estate. Enchanted by his lovely wife Nina, and his eccentric young daughter, Aurelia, Emily falls headlong into this oasis of wine-soaked days by the pool. But soon Emily realizes that Scott and Nina are hiding dangerous secrets, and if she doesn't play along, the consequences could be deadly.

Cardiac Regeneration

This volume contains the proceedings of the XIX International Colloquium on Mechanical Fatigue of Metals, held at the Faculty of Engineering of the University of Porto, Portugal, 5-7 September 2018. This International Colloquium facilitated and encouraged the exchange of knowledge and experiences among the different communities involved in both basic and applied research in the field of the fatigue of metals, looking at the problem of fatigue exploring analytical and numerical simulative approaches. Fatigue damage represents one of the most important types of damage to which structural materials are subjected in normal industrial

services that can finally result in a sudden and unexpected abrupt fracture. Since metal alloys are still today the most used materials in designing the majority of components and structures able to carry the highest service loads, the study of the different aspects of metals fatigue attracts permanent attention of scientists, engineers and designers.

Relevant Chemistry Education

This book is aimed at chemistry teachers, teacher educators, chemistry education researchers, and all those who are interested in increasing the relevance of chemistry teaching and learning as well as students' perception of it. The book consists of 20 chapters. Each chapter focuses on a certain issue related to the relevance of chemistry education. These chapters are based on a recently suggested model of the relevance of science education, encompassing individual, societal, and vocational relevance, its present and future implications, as well as its intrinsic and extrinsic aspects. "Two highly distinguished chemical educators, Ingo Eilks and AviHofstein, have brought together 40 internationally renowned colleagues from 16 countries to offer an authoritative view of chemistry teaching today. Between them, the authors, in 20 chapters, give an exceptional description of the current state of chemical education and signpost the future in both research and in the classroom. There is special emphasis on the many attempts to enthuse students with an understanding of the central science, chemistry, which will be helped by having an appreciation of the role of the science in today's world. Themes which transcend all education such as collaborative work, communication skills, attitudes, inquiry learning and teaching, and problem solving are covered in detail and used in the context of teaching modern chemistry. The book is divided into four parts which describe the individual, the societal, the vocational and economic, and the non-formal dimensions and the editors bring all the disparate leads into a coherent narrative, that will be highly satisfying to experienced and new researchers and to teachers with the daunting task of teaching such an intellectually demanding subject. Just a brief glance at the index and the references will convince anyone interested in chemical education that this book is well worth studying; it is scholarly and readable and has tackled the most important issues in chemical education today and in the foreseeable future." - Professor David Waddington, Emeritus Professor in Chemistry Education, University of York, United Kingdom

Mechanical Fatigue of Metals

The advances in low-power electronic devices integrated with wireless communication capabilities are one of recent areas of research in the field of Wireless Sensor Networks (WSNs). One of the major challenges in WSNs is uniform and least energy dissipation while increasing the lifetime of the network. This is the first book that introduces the energy efficient wireless sensor network techniques and protocols. The text covers the theoretical as well as the practical requirements to conduct and trigger new experiments and project ideas. The advanced techniques will help in industrial problem solving for energy-hungry wireless sensor network applications.

Sustainable Business Models

In *The Show I'll Never Forget*, writer Sean Manning has gathered an amazing array of unforgettable concert memories from a veritable A-list of acclaimed novelists, poets, biographers, cultural critics, and songwriters. Their candid, first-person recollections reveal as much about the writers' lives at the time as they do about the venues where the shows occurred or the artists onstage. Ishmael Reed on Miles Davis Luc Sante on Public Image Ltd. Heidi Julavits on Rush Daniel Handler and Andrew Sean Greer on Metric Diana Ossana on Led Zeppelin Maggie Estep on Einsturzende Neubauten Dani Shapiro on Bruce Springsteen Gary Giddins on *Titans of the Tenor!* Nick Flynn on Mink DeVille Susan Straight on *The Funk Festival* Rick Moody on *The Lounge Lizards* Jennifer Egan on Patti Smith Harvey Pekar on Joe Maneri Thurston Moore on Glen Branca, Rudolph Grey, and Wharton Tiers Chuck Klosterman on Prince Sigrid Nunez on *Woodstock* Jerry Stahl on David Bowie Charles R. Cross on Nirvana Marc Nesbitt on *The Beastie Boys* And many more . . . No matter where your musical taste falls, these often funny, occasionally sad, always thought-provoking essays-all written especially for *The Show I'll Never Forget*-are sure to connect with anyone who loves, or has ever loved, live music.

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