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Optical Biomimetics - Maryanne Large
2012-09-24

Optical biomimetics, the study of natural systems to inspire novel solutions to problems in optical technologies, has attracted growing interest. Optical biomimetics reviews key research in this area, focusing on the techniques

and approaches used to characterise and mimic naturally occurring optical effects. Beginning with an overview of natural photonic structures, Optical biomimetics goes on to discuss optical applications of biomolecules, such as retinylidene and bacteriorhodopsin, polarisation effects in natural photonic structures and their

applications, and biomimetic nanostructures for anti-reflection (AR) devices. Control of iridescence in natural photonic structures is explored through the case of butterfly scales, alongside a consideration of nanostructure fabrication using natural synthesis. The investigation into silk optical materials is followed by a final discussion of the control of fluorescence in natural photonic structures. With its distinguished editor and international team of expert contributors, *Optical biomimetics* is a valuable guide for scientists and engineers in both academia and industry who are already studying biomimetics, and a fascinating introduction for those who wish to move into this interesting new field.

Is Christianity Practical? - Philip Henry Wicksteed 1920

Information Literacy Instruction - Esther S. Grassian 2009

A guide for librarians on teaching users how to

retrieve and understand information covers learning styles, planning, copyright, design, teaching methods, assessments, diversity, and related topics, and offers exercises and activities.

Handbook of Compliant Mechanisms - Larry L. Howell 2013-04-01

A fully illustrated reference book giving an easy-to-understand introduction to compliant mechanisms. A broad compilation of compliant mechanisms to give inspiration and guidance to those interested in using compliant mechanisms in their designs, the *Handbook of Compliant Mechanisms* includes graphics and descriptions of many compliant mechanisms. It comprises an extensive categorization of devices that can be used to help readers identify compliant mechanisms related to their application. It also provides chapters on the basic background in compliant mechanisms, the categories of compliant mechanisms, and an example of how the Compendium can be used to facilitate

compliant mechanism design. Fully illustrated throughout to be easily understood and accessible at introductory levels Covers all aspects pertaining to classification, elements, mechanisms and applications of compliant mechanisms Summarizes a vast body of knowledge in easily understood diagrams and explanations Helps readers appreciate the advantages that compliant mechanisms have to offer Practical approach is ideal for potential practitioners who would like to realize designs with compliant mechanisms, members and elements Breadth of topics covered also makes the book a useful reference for more advanced readers Intended as an introduction to the area, the Handbook avoids technical jargon to assist non engineers involved in product design, inventors and engineers in finding clever solutions to problems of design and function.
Statistical Downscaling and Bias Correction for Climate Research - Douglas Maraun 2018-01-18
A comprehensive and practical guide, providing

technical background and user context for researchers, graduate students, practitioners and decision makers. This book presents the main approaches and describes their underlying assumptions, skill and limitations. Guidelines for the application of downscaling and the use of downscaled information in practice complete the volume.

100 Cases in Dermatology - Rachael Morris-Jones 2011-08-26

A 23-year-old African Caribbean woman presents in the emergency department with an acute onset facial rash. During initial assessment she complains of a two week history of general malaise, fatigue, fever, and weight loss. You have been assigned her examination...100 Cases in Dermatology presents 100 scenarios with a dermatological manifestation co

Hallelujah Trombone! - Paul E. Bierley 2003

Writing Biography - Lloyd E. Ambrosius
2004-01-01

The historian as biographer must resolve questions that reflect the dual challenge of telling history and telling lives: How does the biographer sort out the individual's role within the larger historical context? How do biographical studies relate to other forms of history? Should historians use different approaches to biography, depending on the cultures of their subjects? What are the appropriate primary sources and techniques that scholars should use in writing biographies in their respective fields? In *Writing Biography*, six prominent historians address these issues and reflect on their varied experiences and divergent perspectives as biographers. Shirley A. Leckie examines the psychological and personal connections between biographer and subject; R. Keith Schoppa considers the pervasive effect of culture on the recognition of individuality and the presentation of a life; Retha M. Warnicke explores past context and modern cultural biases in writing the biographies of Tudor women; John

Milton Cooper Jr. discusses the challenges of writing modern biographies and the interplay of the biographer's own experiences; Nell Irvin Painter looks at the process of reconstructing a life when written documents are scant; and Robert J. Richards investigates the intimate relationship between life experiences and new ideas. Despite their broad range of perspectives, all six scholars agree on two central points: biography and historical analysis are inextricably linked, and biographical studies offer an important tool for analyzing historical questions.

Reciprocity in Elastodynamics - J. A. Achenbach 2003

The reciprocity theorem has been used for over 100 years to establish interesting and useful relations between different loading states of a body. This book discusses current and novel uses of reciprocity relations for the determination of elastodynamic fields. The author, who is internationally distinguished for his

contributions to theoretical and applied mechanics, presents a novel method to solve for wave fields, shedding new light on the use of reciprocity relations for dynamic fields in an elastic body. The material presented in the book is relevant to several fields in engineering and applied physics. Examples are ultrasonics for medical imaging and non-destructive evaluation, acoustic microscopy, seismology, exploratory geophysics, structural acoustics, and the response of structures to high-rate loads and the determination of material properties by ultrasonic techniques.

Works on Paper - Michael Holroyd 2003

Michael Holroyd opens with a startling attack on biography, which is answered by two essays on the ethics and values of non-fiction writing. The book then examines the work of several contemporary biographers, the place of biography in fiction and of fiction in biography, and the revelations of some extravagant autobiographers, from Osbert Sitwell to Quentin

Crisp - to which he adds some adventures of his own, in particular an important and unpublished piece THE MAKING OF GBS, a riveting story of deadly literary warfare. The book ends with a series of satires, celebrations, apologies and polemics which throw light not only on Michael Holroyd's progress as a biographer, but also his record as an embattled campaigner in the field of present-day literary politics.

Transactions of the Unitarian Historical Society - Unitarian Historical Society (England) 2003

Environment, Health, and Safety - Lari A. Bishop 1997

Studies in Theology - Joseph Estlin Carpenter 1903

The Christian Reformer - 1887

Electronic Circuits - Donald L. Schilling 1981

250 Cases in Clinical Medicine E-Book -

Ragavendra R. Baliga 2012-01-27

A new, fully updated edition of Baliga's very popular collection of short cases arranged by clinical area, emphasising the key diagnostic features of clinical conditions as commonly presented in the short-case part of the Final MB and MRCP examinations. Also included are likely instructions or commands expected from the examiner for each condition, and the key points which the candidate must tell the examiner. A must-have for the final-year undergraduate and trainee doctor. From customer reviews of the previous edition: 'This book is the most useful guide that money can buy for the final exams in the current MBChB undergraduate course. It covers important areas of clinical medicine in a question based format and highlights classical scenarios. The questions raised are classical of examiners in the long and short case examinations. This is a must buy for any undergraduate medical student!!!' 'The book is a

must during the period that the young doctor or student is on the wards. It allows one to focus on the important physical findings and the relevant clinical pearls associated with the different medical conditions met... It discusses important physical findings and their diagnostic importance. I have found it useful in preparing for attending ward rounds and also for sharpening my clinical skills. The discussion section is well organised such that undergraduates as well as postgraduates can benefit and the material is up to date with good references for further reading.' 'Excellent preparation for finals as well the MRCP ...MUST HAVE before MRCP PACES.' Features Ideal for use in the ward. Each of the 250 cases presents a disease or topic which is covered consistently to address: ● salient features ● history ● examination ● diagnosis ● questions covering investigations and differentiations ● advanced-level questions ● management. New to this edition: Over 350 new images Enhanced

advanced-level questions Many more tables
Type & Typo -

The Sex-Starved Marriage - Michele Weiner Davis 2004-01-08

Bring the spark back into your bedroom and your marriage with gutsy and effective advice from bestselling author Michele Weiner-Davis. It is estimated that one of every three married couples struggles with problems associated with mismatched sexual desire. Do you? If you want to stop fighting about sex and revitalize your intimate connection with your spouse, then you need this book. In *The Sex-Starved Marriage*, bestselling author Michele Weiner Davis will help you understand why being complacent or bitter about ho-hum sex might cost you your relationship. Full of moving firsthand accounts from couples who have struggled with the erosion of sexual desire and rebuilt their passionate connection, *The Sex-Starved Marriage* addresses every aspect of the sexual

libido problem: If you're the more highly sexed partner, you'll breathe a sigh of relief. At last someone understands your feelings about the void in your marriage. Discover why your pleas for touch have fallen upon deaf ears and why your approach to the lull in your sexual relationship could be a sexual turnoff. Most important, learn new ways to motivate your spouse to take your needs for more physical closeness to heart. If you're the spouse with a lagging libido, you're far from alone. You'll learn about the physiological and psychological factors, including unresolved relationship issues, that may contribute to the chill in your bedroom and what you can do to melt the ice. And if you're a man, you'll be surprised to learn that staggering numbers of men, even men whose sexual machinery works just fine, "get headaches" too! *The Sex-Starved Marriage* will give you and your spouse the inspiration, encouragement, and answers you need.

Essays in Dissent - Donald Davie 1995

Donald Davie has insisted - even as he was writing about Modernism and Ezra Pound - on an area of English literature, history and spirituality misread and misvalued in a secular age, when the churches are themselves at pains to dilute or deny the sermons, hymns and tracts which defined and energised their chapel lives. Davie neither dilutes nor denies: he reappraises with scholarly, searching love the elements from which his culture and imagination are shaped. He edited the Oxford Book of Christian Verse and the Penguin Book of Psalms. This volume brings together his 1976 Clark Lectures (Cambridge), the 1980 Ward-Phillips Lectures (Notre Dame) and related material, illuminating the political and spiritual heritage of distinctively English Protestant traditions. *Smart Material Structures* - H. Thomas Banks 1996

In this monograph, mathematical and computational investigations pertinent to scientific and engineering issues in the emerging

field of smart materials are presented. A brief survey of basic mechanisms and questions related to various components (piezoelectric and electrostrictive elements, magnetostrictive transducers, ER fluids, shape memory alloys, fiber optics) of smart material structures is given. Attention is then focused on piezoceramic actuators and sensors. Care is given to the precise modeling of piezoceramic patch contributions (passive and active) in structures such as thin shells, plates and beams. Mathematical foundations for well-posedness, approximation, inverse problem and parameter estimation, and feedback control methodologies are discussed. Applications, including experimental validation of the efficacy of the ideas, are presented in the context of damage detection and characterization in structures, and in active control of structural vibrations and structure-borne noise.

Active Origami - Edwin A. Peraza Hernandez
2018-07-12

Origami structures have the ability to be easily fabricated from planar forms, enable the deployment of large structures from small volumes, and are potentially reconfigurable. These characteristics have led to an increased interest in theoretical and computational origami among engineers from across the world. In this book, the principles of origami, active materials, and solid mechanics are combined to present a full theory for origami structures. The focus is on origami structures morphed via active material actuation and formed from sheets of finite thickness. The detailed theoretical derivations and examples make this an ideal book for engineers and advanced students who aim to use origami principles to develop new applications in their field.

Project Based Teaching - Suzie Boss 2018-09-20

It's no secret that in today's complex world, students face unparalleled demands as they prepare for college, careers, and active citizenship. However, those demands won't be

met without a fundamental shift from traditional, teacher-centered instruction toward innovative, student-centered teaching and learning. For schools ready to make such a shift, project-based learning (PBL) offers a proven framework to help students be better equipped to tackle future challenges. Project Based Teachers encourage active questioning, curiosity, and peer learning; create learning environments in which every student has a voice; and have a mastery of content but are also comfortable responding to students' questions by saying, "I don't know. Let's find out together." In this book, Suzie Boss and John Larmer build on the framework for Gold Standard PBL originally presented in *Setting the Standard for Project Based Learning* and explore the seven practices integral to Project Based Teaching: Build the Culture Design and Plan Align to Standards Manage Activities Assess Student Learning Scaffold Student Learning Engage and Coach For each practice, the authors present a wide range of

practical strategies and include teachers' reflections about and suggestions from their classroom experiences. This book and a related series of free videos provide a detailed look at what's happening in PBL classrooms from the perspective of the Project Based Teacher. Let's find out together. A copublication of ASCD and Buck Institute for Education (BIE).

Smart Material Systems - Ralph C. Smith
2005-03-01

This book describes several novel applications currently under investigation that exploit the unique actuator and sensor capabilities of smart material compounds. In addition to present and projected applications, this book provides comprehensive coverage of both linear and nonlinear modeling techniques necessary to characterize materials in a manner that facilitates transducer design and control development. The author focuses on ferroelectric, magnetic, and shape memory compounds and also addresses applications

exploiting amorphous and ionic polymers, magnetorheological compounds, and fiber optic sensors. By providing a unified treatment of both linear and nonlinear characterization frameworks, Smart Material Systems: Model Development encompasses both low to moderate drive levels, which constitute the primary focus of most present texts, and the high drive regimes dictated by present and future applications. This will significantly enhance the design of transducers and control systems which exploit the unique actuator and sensor capabilities provided by smart material compounds.

Smart Structures and Materials - Aurelio L. Araujo 2017

Green Tribology - Michael Nosonovsky
2012-01-16

Tribology is the study of friction, wear and lubrication. Recently, the concept of "green tribology" as "the science and technology of the

tribological aspects of ecological balance and of environmental and biological impacts” was introduced. The field of green tribology includes tribological technology that mimics living nature (biomimetic surfaces) and thus is expected to be environmentally friendly, the control of friction and wear that is of importance for energy conservation and conversion, environmental aspects of lubrication and surface modification techniques, and tribological aspects of green applications such as wind-power turbines or solar panels. This book is the first comprehensive volume on green tribology. The chapters are prepared by leading experts in their fields and cover such topics as biomimetics, environmentally friendly lubrication, tribology of wind turbines and renewable sources of energy, and ecological impact of new technologies of surface treatment. *The Lloyd Geering Reader* - Lloyd Geering 2007 Covering a period of more than 45 years, this is the first collection of the writings of

international figure Lloyd Geering--a premier public intellectual who was once found guilty of heresy by the Presbyterian Church. With never-before-seen material, this compendium demonstrates the remarkable consistency in the thought of this increasingly influential thinker. Provocative and heartfelt, this compilation provides a fascinating coverage of the engagement of religion and the modern world. **"The Unitarian position"** - James Martineau 1859

Impacts of Climate Change on Rainfall Extremes and Urban Drainage Systems -

Patrick Willems 2012-09-14

Impacts of Climate Change on Rainfall Extremes and Urban Drainage Systems provides a state-of-the-art overview of existing methodologies and relevant results related to the assessment of the climate change impacts on urban rainfall extremes as well as on urban hydrology and hydraulics. This overview focuses mainly on

several difficulties and limitations regarding the current methods and discusses various issues and challenges facing the research community in dealing with the climate change impact assessment and adaptation for urban drainage infrastructure design and management. Authors: Patrick Willems, University of Leuven, Hydraulics division; Jonas Olsson, Swedish Meteorological and Hydrological Institute; Karsten Arnbjerg-Nielsen, Technical University of Denmark, Department of Environmental Engineering; Simon Beecham, University of South Australia, School of Natural and Built Environments; Assela Pathirana, UNESCO-IHE Institute for Water Education; Ida Bulow Gregersen, Technical University of Denmark, Department of Environmental Engineering; Henrik Madsen, DHI Water & Environment, Water Resources Department; Van-Thanh-Van Nguyen, McGill University, Department of Civil Engineering and Applied Mechanics
Bioinspiration, Biomimetics, and Bioreplication -

Raúl J. Martín-Palma 2011
Proceedings of SPIE present the original research papers presented at SPIE conferences and other high-quality conferences in the broad-ranging fields of optics and photonics. These books provide prompt access to the latest innovations in research and technology in their respective fields. Proceedings of SPIE are among the most cited references in patent literature.
Toward the well-being of humanity - 2002

Current Progress in Obstetrics and Gynecology - John Studd 2012-10-01

CPOG includes up to date articles on current developments written by international contributors of repute. CPOG is intended for Obstetricians and Gynecologists both in practice and training. It is would be highly useful book for those taking their board exams and also for MRCOG candidates.

New Horizons in Nanoscience and Engineering - David L. Andrews 2015

Nanomaterials and nanoscale interactions span an important and wide-ranging sector of modern science and industry. Championing developments in these fields, SPIE stages an annual forum to stimulate and support their growth: the Nanoscience and Engineering Symposium. This book represents a selection of compelling contributions from some of those innovators closely involved since the launch of this symposium. Among the key advances included are accomplishments with nanowaveguides, silicon photonics, solar energy conversion, lighting, nanofabrication and structure-determining methods for polymeric, organic, inorganic and composite materials, as well as biomaterials that can frequently achieve first-class response characteristics and that are of low-cost, and are readily available and environmentally responsible. Together, these contributions give a fascinating portrayal of the state of the art in the shifting landscape of current nanoscience and engineering.

Magnetorheological Materials and Their Applications - Seung-Bok Choi 2019-07

This book introduces magnetorheological fluids and elastomers, and explores their material properties, related modelling techniques and applications in turn. The book offers insights into the relationships between the properties and characterisation of MR materials and their current and future applications.

Teaching for Learning - Claire Howell Major 2015-08-27

Despite a growing body of research on teaching methods, instructors lack a comprehensive resource that highlights and synthesizes proven approaches. Teaching for Learning fills that gap. Each of the one hundred and one entries: describes an approach and lists its essential features and elements demonstrates how that approach has been used in education, including specific examples from different disciplines reviews findings from the research literature describes techniques to improve effectiveness.

Teaching for Learning provides instructors with a resource grounded in the academic knowledge base, written in an easily accessible, engaging, and practical style.

Cowgirl Kate - 1977

Kate decides to be a cowgirl and has some interesting experiences.

Mosaic: A Family Memoir Revisited - Michael Holroyd 2011-07-01

A love story, a detective story, a book of secrets, a beautifully written journey into a forest of family trees. After writing the definitive biographies of Lytton Strachey and George Bernard Shaw, Michael Holroyd turned his hand to a more personal subject: his own family. The result was *Basil Street Blues*, published in 1999. But rather than the story being over, it was in fact only beginning. As letters from readers started to pour in, the author discovered extraordinary narratives that his own memoir had only touched on. *Mosaic* is Holroyd's piecing together of these remarkable stories: the murder

of the fearsome headmaster of his school; the discovery that his Swedish grandmother was the mistress of the French anarchist Jacques Prévert; and a letter about the beauty of his mother that provides a clue to a decade-long affair. Funny, touching, and wry, *Mosaic* shows how other people's lives, however eccentric or extreme, echo our own dreams and experiences.

The Cambridge Economic History of Latin America - Victor Bulmer-Thomas 2006

Dante & Aquinas - Philip Henry Wicksteed 1913

Discusses Dante's work in the light of the accepted philosophy & theology of his time as expressed in the Thomistic philosophy of Aquinas. The author makes analytical digressions into Greek philosophy. Christian neoplatonism & later transformations of the philosophy of Aristotle.

Workplace Culture in Academic Libraries - Kelly Blessinger 2013-02-11

Workplace culture refers to conditions that collectively influence the work atmosphere. These can include policies, norms, and unwritten standards for behavior. This book focuses on various aspects of workplace culture in academic libraries from the practitioners' viewpoint, as opposed to that of the theoretician. The book asks the following questions: What conditions contribute to an excellent academic library work environment? What helps to make a particular academic library a great place to work? Articles focus on actual programs while placing the discussion in a scholarly context. The book is structured into 14 chapters, covering various aspects of workplace culture in academic libraries, including: overview of

workplace culture, assessment, recruitment, acclimation for new librarians, workforce diversity, physical environment, staff morale, interaction between departments, tenure track/academic culture, mentoring/coaching, generational differences, motivation/incentives, complaints/conflict management, and organizational transparency. Includes the most current best practices and models in academic libraries Represents the viewpoints of both the employee and manager Focuses on the academic library as workplace rather than as a service provider

The Life and Letters of James Martineau - James Drummond 1902