

Science And The Practice Of Medicine In The Nineteenth Century Cambridge Studies In The History Of Science

From leading experts in cognitive-behavioral therapy (CBT)--including CBT originator Aaron T. Beck and many who have worked closely with him--this book provides an overview of where the field is today and presents cutting-edge research and clinical applications. Contributors explain how Beck's cognitive model has been refined and tested over the last 45 years and describe innovative CBT approaches that integrate mindfulness, imagery, emotion-focused interventions, and other strategies. Chapters on specific clinical problems cover the conceptualization and treatment of depression, anxiety disorders, posttraumatic stress disorder, obsessive-compulsive disorder, insomnia, suicidality, substance abuse, couple and family problems, bipolar disorder, psychosis, and personality disorders.

The popularity of distance running as a sport, and a recreational activity, is at an all-time high. Motivated by the desire to achieve a personal best, remain healthy, or simply complete an event, distance runners of all ages and abilities actively seek out advice from experienced coaches and sport scientists. This is also reflected in the growth of programmes of education for young coaches and aspiring sport scientists in recent years. There are a multitude of different approaches to training distance runners; however, the basic principles and ingredients required for success are applicable to any distance runner. The science that underpins the training and physical preparation of distance runners has developed considerably in recent years. The most experienced and successful coaches in the distance running community rarely have the opportunity to share their tried and tested methods of training. Similarly, the novel work of sport scientists is often only accessible to elite runners, their support teams and academia. The Science and Practice of Middle and Long Distance Running links together the science and coaching artistry associated with preparing distance runners for events ranging from 800 m up to ultra-marathon distances. It combines the latest scientific evidence, published by world-leading sport scientists, with the sound training principles and strategies adopted by experienced coaches. The book translates cutting-edge scientific research from the fields of physiology, biomechanics, psychology and nutrition into practical suggestions for achieving success. Important topical issues and contemporary practices related to health and performance are also addressed. This book is an essential addition to the library of any distance runner, coach or sport scientist.

New York Times bestseller • This groundbreaking new book from New York Times bestselling author Daniel J. Siegel, M.D., introduces readers to his pioneering, science-based meditation practice. Aware provides practical instruction for mastering the Wheel of Awareness, a life-changing tool for cultivating more focus, presence, and peace in one's day-to-day life. An in-depth look at the science that underlies meditation's effectiveness, this book teaches readers how to harness the power of the principle "Where attention goes, neural firing flows, and neural connection grows." Siegel reveals how developing a Wheel of Awareness practice to focus attention, open awareness, and cultivate kind intention can literally help you grow a healthier brain and reduce fear, anxiety, and stress in your life. Whether you have no experience with a reflective practice or are an experienced practitioner, Aware is a hands-on guide that will enable you to become more focused and present, as well as more energized and emotionally resilient in the face of stress and the everyday challenges life throws your way.

This publication has been written to honour the contribution to science and education made by the Distinguished Professor Emeritus Professor Schey on his eightieth birthday. The contributors to his book are among the countless researchers who have read, studied and learned from Professor Schey's work, which includes books, research monographs, invited papers, keynote papers, scientific journals and conferences. The topics include manufacturing, sheet and bulk metal forming and tribology, amongst others. The topics included in this book include: John Schey and value-added manufacturing; Surface finish and friction in cold-metal rolling; Direct observation of interface for tribology in metal forming; An examination of the coefficient of friction; Studies on micro plasto hydrodynamic lubrication in metal forming; Numerical simulation of sheet metal forming; Geometric and mechanics model of sheet forming; Modelling and optimisation of metal forming processes; The mathematical modelling of hot rolling steel; Identification of rheological and tribological parameters; Oxide behaviour in hot rolling; Friction, lubrication and surface response in wire drawing; and Modelling and control of temper rolling and skin pass rolling.

Science as Practice and Culture explores one of the newest and most controversial developments within the rapidly changing field of science studies: the move toward studying scientific practice—the work of doing science—and the associated move toward studying scientific culture, understood as the field of resources that practice operates in and on. Andrew Pickering has invited leading historians, philosophers, sociologists, and anthropologists of science to prepare original essays for this volume. The essays range over the physical and biological sciences and mathematics, and are divided into two parts. In part I, the contributors map out a coherent set of perspectives on scientific practice and culture, and relate their analyses to central topics in the philosophy of science such as realism, relativism, and incommensurability. The essays in part II seek to delineate the study of science as practice in arguments across its borders with the sociology of scientific knowledge, social epistemology, and reflexive ethnography.

Humility, being open and receptive to all experience, is the key to becoming one with the spontaneous patterns of the universe • Integrates classic teachings of Hinduism and Buddhism with principles of quantum physics to reveal the science of the enlightened masters • Reveals how we are each capable of shifting from the aggressive path of the warrior to the humble path of the sage • Explains how the key to catching the current acceleration of conscious evolution is humility From Krishna and Lao-tzu to Buddha and Jesus, each enlightened master discovered how being receptive to all experience was the key to becoming one with the universe and its spontaneous patterns of order and

chaos. Revealing humility as the purest expression of this receptivity, Jason Gregory integrates classic teachings of Hinduism, Buddhism, Taoism, and Hermeticism with principles from quantum physics to explain the science of humility as practiced by the ancient masters. The author shows how, driven by fear, the human mind creates the ego. In its greedy and arrogant quest to protect the self and its desires, the ego forges the illusion of separation, weaving complex patterns of reality that shield us from our unity with all beings and result in attitudes of aggression, selfishness, and competition. He reveals how the iconic clash between this complex, aggressive “path of the warrior” and the simple “path of the sage” is reflected in the polarized state of the modern world. Yet this state also reflects the accelerating wave of conscious evolution we are now experiencing. The key to catching this evolutionary wave is humility: the reversal of complexity into simplicity, the ancient science of mental alchemy that represents the Great Work of Eternity. Tour the age of dinosaurs with this colorful, authoritative, easy-to-read field guide.

The definitive work in D&I research -- now completely updated and expanded The application of scientific research to the creation of evidence-based policies is a science unto itself -- and one that is never easy. Dissemination and implementation research (D&I) is the study of how scientific advances can be implemented into everyday life, and understanding how it works has never been more important for students and professionals across the scientific, academic, and governmental communities. Dissemination and Implementation Research in Health is a practical guide to making research more consequential, a collection assembled and written by today's leading D&I researchers. Readers of this book are taught to: Evaluate the evidence base in an effective intervention Choose a strategy that produces the greatest impact Design an appropriate and effectual study Track essential outcomes Account for the barriers to uptake in communities, social service agencies, and health care facilities The challenges to moving research into practice are universal, and they're complicated by the current landscape's reliance on partnerships and multi-center research. In this light, Dissemination and Implementation Research in Health is nothing less than a roadmap to effecting change in the sciences. It will have broad utility to researchers and practitioners in epidemiology, biostatistics, behavioral science, economics, medicine, social work, psychology, and anthropology -- both today and in our slightly better future.

For more than 100 years, this textbook has been the definitive reference for all aspects of the science and practice of pharmacy, and is used for pharmaceuticals, therapeutics and pharmacy practice courses in primary curricula. Since the first edition was published, pharmacists have used this book as a key one-stop reference. This updated edition covers many education and practice issues, from the history of pharmacy and ethics, to industrial pharmacy and pharmacy practice. New to the edition are expanded sections on pharmacy administration and patient care, which include new topics such as: nutrition in pharmacy practice; self care and home diagnostic products; health care delivery systems and interdisciplinary care; and home health patient care. Also, information has been condensed into one volume for greater portability and convenience.

This book is a result from a collective study on philosophy of scientific practice (PSP), which began around 2002 and still ongoing. There is an apparently increasing interest in scientific practice, influenced by the historicistic philosophy of science and the sociology of scientific knowledge (SSK). Prof. WU Tong and his research group believe that it is necessary for PSP to turn from the theory-dominant position to the practice dominance. PSP has also put forward the possibility of reinterpreting the epistemic status of local knowledge in Chinese tradition, which provides the most significant motivation to participate this study. In this book, we have selected three main cases – namely, Chinese medicine, Fengshui, and Ethnobotany – to examine the effect of PSP. The aim of our collective study is not merely on theoretical construction of PSP, but also to consider the various applications of PSP, especially for re-interpreting and demonstrating the variety of local knowledge from traditional China, which seems to be a genuine contribution to the international enterprise of philosophy of science, particularly made by Chinese scholars.

The book Theory and Practice of Contrast completes, corrects and integrates the foundations of science and humanities, which include: theory of art, philosophy (aesthetics, epistemology, ontology, axiology), cognitive science, theory of information, theory of complexity and physics. Through the integration of these distant disciplines, many unresolved issues in contemporary science have been clarified or better understood, among others: defining impact (contrast) and using this definition in different fields of knowledge; understanding what beauty/art is and what our aesthetic preferences depend on; deeper understanding of what complexity and information are in essence, and providing their general definitions. Complexity means integration, value and goodness - concepts that seem to be neglected today. The book also has a high degree of integration/complexity, although each chapter introduces a new issue. The last chapter: "Binary Model of the Universe" draws attention to the need for including in physics the analysis of our mind and the resulting new possibilities, which include the mentioned (digital) model of the universe. Despite the difficult issues raised here, this study is written in accessible language and may be interesting not only for scientists and academics.

Remington: The Science and Practice of Pharmacy, Twenty Third Edition, offers a trusted, completely updated source of information for education, training, and development of pharmacists. Published for the first time with Elsevier, this edition includes coverage of biologics and biosimilars as uses of those therapeutics have increased substantially since the previous edition. Also discussed are formulations, drug delivery (including prodrugs, salts, polymorphism. With clear, detailed color illustrations, fundamental information on a range of pharmaceutical science areas, and information on new developments in industry, pharmaceutical industry scientists, especially those involved in drug discovery and development will find this edition of Remington an essential reference. Intellectual property professionals will also find this reference helpful to cite in patents and resulting litigations. Additional graduate and postgraduate students in Pharmacy and Pharmaceutical Sciences will refer to this book in courses dealing with medicinal chemistry and pharmaceuticals. Contains a comprehensive source of principles of drug discovery and development topics, especially for scientists that are new in the pharmaceutical industry

such as those with trainings/degrees in chemistry and engineering Provides a detailed source for formulation scientists and compounding pharmacists, from produg to excipient issues Updates this excellent source with the latest information to verify facts and refresh on basics for professionals in the broadly defined pharmaceutical industry Presents an overview of the scientific process for those curious about science practice in today's society, and especially for those considering making a career of science. Science and the Practice of Medicine in the Nineteenth CenturyCambridge University Press

"an overview of the important developments in neuropsychology that cannot be found from the perusal of journals alone. Interest in the reviews collected in this volume will likely go beyond neuropsychology and extend to researchers exploering brain-behavior relationships, the study of disease and injury as they affect brain function, and the rehabilitation of individuals who have suffered brain injury." from back cover.

The second edition of this innovative work again provides a unique perspective on the clinical discovery process by providing input from experts within the NIH on the principles and practice of clinical research. Molecular medicine, genomics, and proteomics have opened vast opportunities for translation of basic science observations to the bedside through clinical research. As an introductory reference it gives clinical investigators in all fields an awareness of the tools required to ensure research protocols are well designed and comply with the rigorous regulatory requirements necessary to maximize the safety of research subjects. Complete with sections on the history of clinical research and ethics, copious figures and charts, and sample documents it serves as an excellent companion text for any course on clinical research and as a must-have reference for seasoned researchers. *Incorporates new chapters on Managing Conflicts of Interest in Human Subjects Research, Clinical Research from the Patient's Perspective, The Clinical Researcher and the Media, Data Management in Clinical Research, Evaluation of a Protocol Budget, Clinical Research from the Industry Perspective, and Genetics in Clinical Research *Addresses the vast opportunities for translation of basic science observations to the bedside through clinical research *Delves into data management and addresses how to collect data and use it for discovery *Contains valuable, up-to-date information on how to obtain funding from the federal government

In the Flow: Bridging the Science and Practice of Mindfulness will change the way you live your life! In clear and captivating style, neuroscientist, Dr. Deborah Norris, lays out new theories in the science of mindfulness, revealing how simple practices are able to remove our roadblocks to health and happiness. You can get back In the Flow and live the life of your own choosing by identifying and using mindfulness practices that work for you.

The fields they examine span the modern physical sciences, ranging from theoretical physics to electrical engineering and from nuclear weapons science to quantum chemistry."--Jacket.

What does it mean to know something - scientifically, anthropologically, socially? What is the relationship between different forms of knowledge and ways of knowing? How is knowledge mobilised in society and to what ends? Drawing on ethnographic examples from across the world, and from the virtual and global 'places' created by new information technologies, Anthropology and Science presents examples of living and dynamic epistemologies and practices, and of how scientific ways of knowing operate in the world. Authors address the nature of both scientific and experiential knowledge, and look at competing and alternative ideas about what it means to be human. The essays analyze the politics and ethics of positioning 'science', 'culture' or 'society' as authoritative. They explore how certain modes of knowing are made authoritative and command allegiance (or not), and look at scientific and other rationalities - whether these challenge or are compatible with science.

Explore the physiology of 30 key yoga poses, in-depth and from every angle, and master each asana with confidence and control. Did you know that yoga practice can help lower your blood pressure, decrease inflammation and prevent age-related brain changes? Recent scientific research now backs up what were once anecdotal claims about the benefits of yoga to every system in the body. Science of Yoga reveals the facts, with annotated artworks that show the mechanics, the angles, how your blood flow and respiration are affected, the key muscle and joint actions working below the surface of each pose, safe alignment and much more. With insight into variations on the poses and a Q&A section that explores the science behind every aspect of yoga, this easy-to-understand, comprehensive ebook is an invaluable resource to achieve technical excellence in your practice and optimize the benefits of yoga for your body and mind.

This book provides a clear and comprehensive guide to the clinical prescription of lithium that draws upon evidence-based knowledge of its mechanisms of action. The book is divided into two parts, on the science of lithium and the practice of lithium therapy. The former covers aspects such as the properties of the lithium ion, pharmacokinetics and pharmacodynamics, impact on neurotransmission, and gene expression modulation. The section on practice includes discussion of variability in response to lithium, use of lithium in the treatment of bipolar disorders, its value in suicide prevention, administration during pregnancy and in the pediatric age group, and side effects. Lithium is arguably the only true mood stabilizer, and its multifaceted effects across many clinical domains have given rise to a resurgence of interest in recent years, fuelled by both researchers and clinicians. Nevertheless, its use remains constrained by exaggerated concerns about potential side-effects. In reality, lithium is a simple molecule that is relatively straightforward to administer and monitor and has potentially profound benefits at a fraction of the cost of contemporary agents. This book dispels the many myths and concerns that surround its use and will be of interest for clinicians and researchers worldwide, and those that are recipients of lithium therapy.

This book deals with two key questions. First, is there a firm scientific basis for the major applications of psychology in organizations? Second, does the practice of psychology in organizations contribute in any meaningful way to psychological research? This text attempts to answer these questions by describing some of the unique ways in which

Industrial/Organizational (I/O) psychologists integrate science and practice in applying psychology in organizations. The editors of this volume believe that there is great potential for the effective interplay of science and practice in I/O psychology. Aware, however, that much work must still be done before a truly effective integration can be achieved and maintained, they have created a text that offers specific suggestions for improvement as well as many examples of successful integration. Psychology in Organizations explores the unique relationship between science and practice within industrial/organizational psychology. The contributors seek to answer two main questions: * Is there a firm scientific basis for the major applications of psychology in organizations? * Does the practice of psychology in organizations contribute in any meaningful way to psychological research? After an initial examination of the industrial/organizational psychologist as a scientist and practitioner, Psychology in Organizations looks at specific roles played in such issues as job performance and productivity, sexual harassment, drug abuse, and drug testing. A final chapter looks at both the past and future of the field and suggests future applications. This volume reflects the 'philosophy of science in practice' approach and takes a fresh look at traditional philosophical problems in the context of natural, social, and health research. Inspired by the work of Nancy Cartwright that shows how the practices and apparatuses of science help us to understand science and to build theories in the philosophy of science, this volume critically examines the philosophical concepts of evidence, laws, causation, and models and their roles in the process of scientific reasoning. Each chapter is an important one in the philosophy of science, while the volume as a whole deals with these philosophical concepts in a unified way in the context of actual scientific practice. This volume thus aims to contribute to this new direction in the philosophy of science.?

The Global Practice of Forensic Science presents histories, issues, patterns, and diversity in the applications of international forensic science. Written by 64 experienced and internationally recognized forensic scientists, the volume documents the practice of forensic science in 28 countries from Africa, the Americas, Asia, Australia and Europe. Each country's chapter explores factors of political history, academic linkages, the influence of individual cases, facility development, types of cases examined, integration within forensic science, recruitment, training, funding, certification, accreditation, quality control, technology, disaster preparedness, legal issues, research and future directions. Aimed at all scholars interested in international forensic science, the volume provides detail on the diverse fields within forensic science and their applications around the world.

Science -- and the technology derived from it -- is having a dramatic impact on the quality of our personal lives and the environment around us. Science will have an even greater impact on the lives of our students. The lives of scientifically literate students will be enriched by their understanding, appreciation, and enjoyment of the natural world. To prosper in the near future, all students must become scientifically literate and embrace the notion of life-long learning in science. Without scientific literacy, it will become impossible for students to make informed decisions about the interrelated educational, scientific, and social issues that will confront them in the future. Intended for science teachers, teacher educators, researchers, and administrators, this volume is concerned with the innovative research that is reforming how science is learned in schools. The chapters provide overviews of current research and illustrate how the findings of this research are being applied in schools. This research-based knowledge is essential for effective science instruction. The contributors are leading authorities in science education and their chapters draw clear connections among research, theory, and classroom practice. They provide excellent examples from science classes in which their research has reformed practice. This book will help educators develop the scientific literacy of students. It bridges the gap between cutting-edge research and classroom practice to provide educators with the knowledge they need to foster students' scientific literacy.

Effective fitness instruction and training programme design require an exercise specialist trainer to combine professional experience with strategies underpinned by scientific evidence. This book allows readers to develop their understanding of the scientific rationale behind important components of personal training, such as monitoring fitness and training programme design. Each chapter synthesizes the findings of cutting-edge scientific research to identify optimum training methods and dispel some myths that are prevalent in the fitness industry. The chapters within this new edition have been written by internationally renowned experts from several disciplines, including strength and conditioning, physiology, psychology, and nutrition. Contributions have also been made from esteemed academics who have conducted some of the scientific studies discussed within the book. The authors have interpreted and summarised the scientific evidence and produced evidence-based recommendations, allowing readers to explore the latest concepts and research findings and apply them in practice. The book includes several new chapters, such as evidenced based practice (EBP), and designing training programmes female clients. This second edition remains the essential text for fitness instructors, personal trainers and sport and exercise students. The book provides an invaluable resource for fitness courses, exercise science degree programmes and continued professional development for exercise professionals.

Learn how to shift from teaching science content to teaching a more hands-on, inquiry-based approach, as required by the new Next Generation Science Standards. This practical book provides a clear, research verified framework for building lessons that teach scientific process and practice abilities, such as gathering and making sense of data, constructing explanations, designing experiments, and communicating information. Creating Scientists features reproducible, immediately deployable tools and handouts that you can use in the classroom to assess your students' learning within the domains for the NGSS or any standards framework with focus on the integration of science practice with content. This book is an invaluable resource for educators seeking to build a "community of practice," where students discover ideas through well-taught, hands-on, authentic science experiences that foster an innate love for learning how the world works.

A dynamic approach to mental health and wellness, ready for any clinician to implement. Wellness is rapidly becoming an issue of great importance in clinical practice. Wellness-centric clinicians look to improve various traits known to be beneficial to patients— traits such as happiness, enthusiasm, resilience, and optimism (referred to as the HERO traits). All of these not only improve global mental wellness, but also offer resilience against stress, depression, and anxiety. Wellness-centric interventions augment both psychopharmacology and traditional psychotherapies, such as CBT. Rakesh and Saundra Jain start with an in- depth review of the scientific literature and a practical introduction on applying wellness interventions in various

clinical settings. Additionally, they offer advice on such beneficial practices as exercise, mindfulness, optimized nutrition, optimized sleep, enhanced socialization, and positive psychology enhancement. A robust resource section offers access to wellness-centric scales and forms developed by the authors.

The science and practice of feeling our movements, sensations, and emotions. When we are first born, before we can speak or use language to express ourselves, we use our physical sensations, our “body sense,” to guide us toward what makes us feel safe and fulfilled and away from what makes us feel bad. As we develop into adults, it becomes easy to lose touch with these crucial mind-body communication channels, but they are essential to our ability to navigate social interactions and deal with psychological stress, physical injury, and trauma. Combining a ground-up explanation of the anatomical and neurological sources of embodied self-awareness with practical exercises in touch and movement, Body Sense provides therapists and their clients with the tools to attain mind-body equilibrium and cultivate healthy body sense throughout their lives.

Featuring Engaging Podcasts Highlighting Major Public Health Case Studies in all 15 Chapters! Public Health: An Introduction to the Science and Practice of Population Health is a foundational textbook designed for students who are launching their public health studies and preparing for professions in the field. Our health is generated throughout our lives and by the world around us—by where we live, where we work, and who we interact with on a daily basis. This book, therefore, takes a unique approach to teach public health. It combines an eco-social framework with a life course perspective on population health to help the student understand how our experiences and context shape our health and how this informs the practice of public health. Written by leading public health educators, the textbook begins with the foundations—a history of public health and a discussion of the core values of health equity and disease prevention. An engaging survey of the eco-social framework and life course factors affecting health follows. The book concludes with a section dedicated to population health methods, implementation science, community engagement, advocacy, and health promotion. The book is illustrated throughout by cases that cross disciplines, that engage the student with issues of contemporary concern that are the remit of public health, and that offer systematic analyses that point toward solutions. With a focused approach to public health that guides the student through the causes of health—across levels and across stages in the life course—this groundbreaking, first-of-its-kind textbook integrates the core components of the field in clear and lucid language. Timely and relevant case studies, practical learning objectives, discussion questions in all chapters, numerous tables and illustrations throughout, chapter-based podcasts, and more make Public Health an innovative and lively platform for understanding the science of population health and the practice of public health. Key Features: A modern approach to the field that grounds the study of public health in life course and eco-social frameworks to better organize the science of population health and the practice of public health Explains the central role that prevention and health equity play in improving population health Features case studies that discuss contemporary issues affecting population health, including heart disease, Ebola, environmental exposures, gun violence, the opioid epidemic, health policy, and many more High volume of figures and tables to illustrate key points Includes a robust Instructor ancillary package with PowerPoints, an Instructor’s Manual, test banks, discussion questions, and conversion guide

A foundational textbook on the scientific principles of therapeutic herbalism and their application in medicine • A complete handbook for the medical practitioner • Includes the most up-to-date information on preparations, dosage, and contraindications • By the author of The Complete Illustrated Holistic Herbal Medical Herbalism contains comprehensive information concerning the identification and use of medicinal plants by chemical structure and physiological effect, the art and science of making herbal medicine, the limitations and potential of viewing herbs chemically, and the challenge to current research paradigms posed by complex plant medicines. It also includes information on toxicology and contraindications, the issues involved in determining dosage and formulation types for an individual, guides to the different measurement systems and conversion tables, and the pros and cons of both industrial and traditional techniques. With additional sections devoted to the principles of green medicine, the history of Western Herbalism, the variety of other medical modalities using medicinal plants, an extensive resource directory, and a discussion of treatments organized by body system, Medical Herbalism is the comprehensive textbook all students and practitioners of clinical herbalism need to develop their healing practices.

"The companion volume to the new, fourth edition of Kandel, Schwartz, and Jessell's Principles of Neural Science, this engaging book bridges the gap between basic science and clinical medicine, emphasizing the real-world relevance of neurobiology to clinical decision-making."

Improving the dynamic relationship between nature and human well-being is a pressing issue of our time. Landscapes embody this tight interconnectedness and serve as unique sustainability learning hubs, showcased by the global rise of place-based and holistic landscape stewardship initiatives. Incorporating these exciting developments, this book explores the principles of landscape stewardship and their function in fields such as agriculture, ecological restoration and urban green infrastructure. It provides insights into the challenges and the potential of landscape stewardship and identifies future paths for the science and practice of landscape-related sustainability efforts. Aligning analytical perspectives with practical applications, it brings together contributions from leading scholars and innovative models of landscape stewardship from all around the world, making it an essential resource for anyone interested in developing sustainable human-nature relationships.

Science and Practice of Strength Training addresses the complexity of strength training programs while providing advice in customizing programs for athletes and other populations. It covers velocity training, intensity, timing, exercises, injury prevention, overtraining, and athlete monitoring.

This book offers a comprehensive view on resilience based upon state-of-the-science theories and methodological applications that resilience may fill. Specifically, this text provides a compendium of knowledge on the theory, methods, and practice of resilience across a variety of country and case contexts, and demonstrates how a resilience-based approach can help further improved infrastructure, vibrant societies, and sustainable environments and ecologies, among many others. Resilience is a term with thousands of years of history. Only recently has resilience been applied to the management of complex interconnected systems, yet its impact as a governing philosophy and an engineering practice has been pronounced. Colloquially, resilience has been used as a synonym for ‘bouncing back’. Philosophically and methodologically, however, it is much more. In a world defined by interconnected and interdependent systems such as water, food, energy, transportation, and the internet, a sudden and unexpected disruption to one critical system can lead to significant challenges for many others. The

Science and Practice of Resilience is beneficial for those seeking to gain a rich knowledge of the resilience world, as well as for practitioners looking for methods and tools by which resilience may be applied in real-world contexts.

Introduction to the Practice of Fishery Science covers the role of fishery science in various social affairs. This book is divided into three parts encompassing 15 chapters. Part I is about the profession, what is embodied in a professional career and the expanding challenges to the profession, with a summary of the work of organizations that employ fishery scientists. Part II deals with the traditional sciences that apply to the aquatic environment and its organisms. This part also tackles their biology, ecology, populations, and culture. Part III presents an overall qualitative concept of the activity of fishery scientists. This part also provides a perspective on fishery problems in several major areas and the ways in which the many kinds of scientists are attacking them. This book will prove useful to fishery scientists, researchers, and students.

W. F. Bynum argues that 'modern' medicine is built upon foundations established between 1800 and the beginning of World War I.

In the 1980s, philosophical, historical and social studies of science underwent a change which later evolved into a turn to practice. Analysts of science were asked to pay attention to scientific practices in meticulous detail and along multiple dimensions, including the material, social and psychological. Following this turn, the interest in scientific practices continued to increase and had an indelible influence in the various fields of science studies. No doubt, the practice turn changed our conceptions and approaches of science, but what did it really teach us? What does it mean to study scientific practices? What are the general lessons, implications, and new challenges? This volume explores questions about the practice turn using both case studies and theoretical analysis. The case studies examine empirical and mathematical sciences, including the engineering sciences. The volume promotes interactions between acknowledged experts from different, often thought of as conflicting, orientations. It presents contributions in conjunction with critical commentaries that put the theses and assumptions of the former in perspective. Overall, the book offers a unique and diverse range of perspectives on the meanings, methods, lessons, and challenges associated with the practice turn.

Written by an internationally well-known editor team, Endometriosis: Science and Practice is a state-of-the-art guide to this surprisingly common disease. While no cause for endometriosis has been determined, information of recent developments are outlined in this text, offering insight to improve management of symptoms medically or surgically. The first of its kind, this major textbook integrates scientific and clinical understanding of this painful disease helping to provide better patient care.

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