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Pollutants and Water Management - Pardeep Singh 2021-05-04
POLLUTANTS AND WATER MANAGEMENT
Pollutants and Water Management: Resources, Strategies and Scarcity delivers a balanced and comprehensive look at recent trends in the management of polluted water resources. Covering the latest practical and theoretical aspects of polluted water management, the distinguished academics and authors emphasize indigenous practices of water resource management, the scarcity of clean water, and the future of the water system in the context of an increasing urbanization and globalization. The book details the management of contaminated water sites, including heavy metal

contaminations in surface and subsurface water sources. It details a variety of industrial activities that typically pollute water, such as those involving crude oils and dyes. In its discussion of recent trends in abatement strategies, Pollutants and Water Management includes an exploration of the application of microorganisms, like bacteria, actinomycetes, fungi, and cyanobacteria, for the management of environmental contaminants. Readers will also discover a wide variety of other topics on the conservation of water sources including: The role of government and the public in the management of water resource pollution The causes of river system pollution and potential future scenarios in the abatement of river pollution Microbial degradation of organic pollutants in various water bodies The advancement in membrane technology used in water treatment processes Lead contamination in groundwater and recent trends in abatement strategies for it Highly polluting industries and their effects on surrounding water resources Perfect for graduate and postgraduate students and researchers whose focus is on recent trends in abatement strategies for pollutants and the application of microorganisms for the management of environmental contaminants, Pollutants and Water Management: Resources, Strategies and Scarcity also has a place in the libraries of environmentalists whose work involves the management and conservation of polluted sites.

Finding What Works in Health Care - Institute of Medicine 2011-07-20 Healthcare decision makers in search of reliable information that compares health interventions increasingly turn to systematic reviews for the best summary of the evidence. Systematic reviews identify, select, assess, and synthesize the findings of similar but separate studies, and can help clarify what is known and not known about the potential benefits and harms of drugs, devices, and other healthcare services.

Systematic reviews can be helpful for clinicians who want to integrate research findings into their daily practices, for patients to make well-informed choices about their own care, for professional medical societies and other organizations that develop clinical practice guidelines. Too often systematic reviews are of uncertain or poor quality. There are no universally accepted standards for developing systematic reviews leading to variability in how conflicts of interest and biases are handled, how evidence is appraised, and the overall scientific rigor of the process. In Finding What Works in Health Care the Institute of Medicine (IOM) recommends 21 standards for developing high-quality systematic reviews of comparative effectiveness research. The standards address the entire systematic review process from the initial steps of formulating the topic and building the review team to producing a detailed final report that synthesizes what the evidence shows and where knowledge gaps remain. Finding What Works in Health Care also proposes a framework for improving the quality of the science underpinning systematic reviews. This book will serve as a vital resource for both sponsors and producers of systematic reviews of comparative effectiveness research.

Index Medicus - 2004-02
Vols. for 1963- include as pt. 2 of the Jan. issue: Medical subject headings.

Principles and Practice of Systematic Reviews and Meta-Analysis - Sanjay Patole 2021-06-26
Evidence based medicine is at the core of modern medicine. It involves the integration of individual clinical expertise with the best available clinical evidence from systematic research and patient's values and expectations. Systematic reviews offer a summary of the best available evidence. They are the most reliable and comprehensive statement about what works. Written by clinical academics from Australia, UK, USA, and Switzerland, this contributed

volume introduces the readers to the principles and practice of systematic reviews and meta-analysis. It covers the various steps involved in systematic reviews including development of a focused question and the strategy for conducting a comprehensive literature search, identifying studies addressing the underlying question, assessment of heterogeneity and the risk of bias in the included studies, data extraction, and the approach to meta-analysis. Crucial issues such as selecting the model for meta-analysis, generating and interpreting forest plots, assessing the risk of publication bias, cautions in the interpretation of subgroup and sensitivity analyses, rating certainty of the evidence using GRADE guideline, and standardized reporting of meta-analysis (PRISMA) are covered in detail. Every attempt is made to keep the narrative simple and clear. Mathematical formulae are avoided as much as possible. While the focus of this book is on systematic reviews and meta-analyses of randomised controlled trials (RCTs),

the gold standard of clinical research, the essentials of systematic reviews of non-RCTs, diagnostic test accuracy studies, animal studies, individual participant data meta-analysis, and network meta-analysis are also covered. Readers from all faculties of medicine will enjoy this comprehensive and reader friendly book to understand the principles and practice of systematic reviews and meta-analysis for guiding their clinical practice and research.
Bibliography and Index: Bibliography and KWIC indexes - Patricia A. Moore 1982

Ethics and Drug Resistance: Collective Responsibility for Global Public Health - Euzebiusz Jamrozik 2020-10-26
This Open Access volume provides in-depth analysis of the wide range of ethical issues associated with drug-resistant infectious diseases. Antimicrobial resistance (AMR) is widely recognized to be one of the greatest threats to global public health in coming

decades; and it has thus become a major topic of discussion among leading bioethicists and scholars from related disciplines including economics, epidemiology, law, and political theory. Topics covered in this volume include responsible use of antimicrobials; control of multi-resistant hospital-acquired infections; privacy and data collection; antibiotic use in childhood and at the end of life; agricultural and veterinary sources of resistance; resistant HIV, tuberculosis, and malaria; mandatory treatment; and trade-offs between current and future generations. As the first book focused on ethical issues associated with drug resistance, it makes a timely contribution to debates regarding practice and policy that are of crucial importance to global public health in the 21st century.

The EBCOG Postgraduate Textbook of Obstetrics & Gynaecology - Tahir Mahmood 2021-10-31
This authoritative textbook provides a much-needed guide for postgraduate trainees preparing for the European Board and College of Obstetrics and Gynaecology (EBCOG) Fellowship examination. Published in association with EBCOG, it fully addresses the competencies defined by the EBCOG curriculum and builds the clinical practice related to these competencies upon the basic science foundations. Volume 1 covers the depth and breadth of obstetrics, and draws on the specialist knowledge of four highly experienced Editors and over 100 contributors from across Europe, reflecting the high-quality training needed to ensure the safety and quality of healthcare for women and their babies. It incorporates key international guidelines throughout, along with colour diagrams and photographs for easy understanding. This is an invaluable resource, not only for postgraduate trainees planning to sit the EFOG examination, but also for practising specialists looking to update their knowledge and skills to meet the ever-evolving complexity of clinical practice.
Big Data and Smart Digital Environment - Yousef

Farhaoui 2019-02-21
This book reviews the state of the art of big data analysis and smart city. It includes issues which pertain to signal processing, probability models, machine learning, data mining, database, data engineering, pattern recognition, visualisation, predictive analytics, data warehousing, data compression, computer programming, smart city, etc. Data is becoming an increasingly decisive resource in modern societies, economies, and governmental organizations. Data science inspires novel techniques and theories drawn from mathematics, statistics, information theory, computer science, and social science. Papers in this book were the outcome of research conducted in this field of study. The latter makes use of applications and techniques related to data analysis in general and big data and smart city in particular. The book appeals to advanced undergraduate and graduate students, postdoctoral researchers, lecturers and industrial researchers, as well as anyone interested in big data analysis and smart city.

Managing and Sharing Research Data - Louise Corti 2014-02-04
Research funders in the UK, USA and across Europe are implementing data management and sharing policies to maximize openness of data, transparency and accountability of the research they support. Written by experts from the UK Data Archive with over 20 years experience, this book gives post-graduate students, researchers and research support staff the data management skills required in today's changing research environment. The book features guidance on: how to plan your research using a data management checklist how to format and organize data how to store and transfer data research ethics and privacy in data sharing and intellectual property rights data strategies for collaborative research how to publish and cite data how to make use of other people's research data, illustrated with six real-life case studies of data use.

The European Blood and Marrow Transplantation Textbook for Nurses - Michelle Kenyon 2018-03-14 This book is open access under a CC BY 4.0 license. This textbook, endorsed by the European Society for Blood and Marrow Transplantation (EBMT), provides adult and paediatric nurses with a full and informative guide covering all aspects of transplant nursing, from basic principles to advanced concepts. It takes the reader on a journey through the history of transplant nursing, including essential and progressive elements to help nurses improve their knowledge and benefit the patient experience, as well as a comprehensive introduction to research and auditing methods. This new volume specifically intended for nurses, complements the ESH-EBMT reference title, a popular educational resource originally developed in 2003 for physicians to accompany an annual training course also serving as an educational tool in its own right. This title is designed to develop the knowledge of nurses in transplantation. It is the first book of its kind specifically targeted at nurses in this specialist field and acknowledges the valuable contribution that nursing makes in this area. This volume presents information that is essential for the education of nurses new to transplantation, while also offering a valuable resource for more experienced nurses who wish to update their knowledge.

OpenStack Operations Guide - Tom Fifield 2014-04-24 Design, deploy, and maintain your own private or public Infrastructure as a Service (IaaS), using the open source OpenStack platform. In this practical guide, experienced developers and OpenStack contributors show you how to build clouds based on reference architectures, as well as how to perform daily administration tasks. Designed for horizontal scalability, OpenStack lets you build a cloud by integrating several technologies. This approach provides flexibility,

but knowing which options to use can be bewildering. Once you complete this book, you'll know the right questions to ask while you organize compute, storage, and networking resources. If you already know how to manage multiple Ubuntu machines and maintain MySQL, you're ready to: Set up automated deployment and configuration Design a single-node cloud controller Use metrics to improve scalability Explore compute nodes, network design, and storage Install OpenStack packages Use an example architecture to help simplify decision-making Build a working environment to explore an IaaS cloud Manage users, projects, and quotas Tackle maintenance, debugging, and network troubleshooting Monitor, log, backup, and restore

Reading Primary Literature - Christopher M. Gillen 2007
Reading primary literature is an exciting, rewarding part of being a scientist and Reading Primary Literature will help get readers up to speed quickly in reading research articles. The booklet covers the parts of a research paper, succinctly explaining the aim of each section and how the paper works as a whole, and as a part of the larger world of science. Readers select a paper to evaluate, and this book guides them through that evaluation with clear explanations, directions for reading and analyzing the material, and applied questions to encourage critical reading skills. A list of sources and references at the back helps readers get started finding papers to read. For all readers interested in get readers up to speed quickly in reading scientific research articles.

The American Psychiatric Association Practice Guideline on the Use of Antipsychotics to Treat Agitation or Psychosis in Patients With Dementia - American Psychiatric Association 2016
The guideline offers clear, concise, and actionable recommendation statements to help clinicians to incorporate recommendations into

clinical practice, with the goal of improving quality of care. Each recommendation is given a rating that reflects the level of confidence that potential benefits of an intervention outweigh potential harms.

Improving Diagnosis in Health Care - National Academies of Sciences, Engineering, and Medicine 2016-01-29
Getting the right diagnosis is a key aspect of health care - it provides an explanation of a patient's health problem and informs subsequent health care decisions. The diagnostic process is a complex, collaborative activity that involves clinical reasoning and information gathering to determine a patient's health problem. According to Improving Diagnosis in Health Care, diagnostic errors-inaccurate or delayed diagnoses-persist throughout all settings of care and continue to harm an unacceptable number of patients. It is likely that most people will experience at least one diagnostic error in their lifetime, sometimes with devastating consequences. Diagnostic errors may cause harm to patients by preventing or delaying appropriate treatment, providing unnecessary or harmful treatment, or resulting in psychological or financial repercussions. The committee concluded that improving the diagnostic process is not only possible, but also represents a moral, professional, and public health imperative. Improving Diagnosis in Health Care, a continuation of the landmark Institute of Medicine reports To Err Is Human (2000) and Crossing the Quality Chasm (2001), finds that diagnosis-and, in particular, the occurrence of diagnostic errorsâ€"has been largely unappreciated in efforts to improve the quality and safety of health care. Without a dedicated focus on improving diagnosis, diagnostic errors will likely worsen as the delivery of health care and the diagnostic process continue to increase in complexity. Just as the diagnostic process is a collaborative activity, improving diagnosis will require collaboration and a widespread

commitment to change among health care professionals, health care organizations, patients and their families, researchers, and policy makers. The recommendations of Improving Diagnosis in Health Care contribute to the growing momentum for change in this crucial area of health care quality and safety.

Cochrane Handbook for Systematic Reviews of Interventions - Julian P. T. Higgins 2008-11-24 Healthcare providers, consumers, researchers and policy makers are inundated with unmanageable amounts of information, including evidence from healthcare research. It has become impossible for all to have the time and resources to find, appraise and interpret this evidence and incorporate it into healthcare decisions. Cochrane Reviews respond to this challenge by identifying, appraising and synthesizing research-based evidence and presenting it in a standardized format, published in The Cochrane Library (www.thecochranelibrary.com). The Cochrane Handbook for Systematic Reviews of Interventions contains methodological guidance for the preparation and maintenance of Cochrane intervention reviews. Written in a clear and accessible format, it is the essential manual for all those preparing, maintaining and reading Cochrane reviews. Many of the principles and methods described here are appropriate for systematic reviews applied to other types of research and to systematic reviews of interventions undertaken by others. It is hoped therefore that this book will be invaluable to all those who want to understand the role of systematic reviews, critically appraise published reviews or perform reviews themselves.

BMC Control-M 7 - Qiang Ding 2012-10-10 Master one of the world?s most powerful enterprise workload automation tools? BMC Control-M 7 - using this book and eBook.

Global Climate Change Impacts in the United States - U.S. Global Change Research

Program 2009-08-24
Summarizes the science of climate change and impacts on the United States, for the public and policymakers.

97 Things Every Cloud Engineer Should Know - Emily Freeman 2020-12-04
If you create, manage, operate, or configure systems running in the cloud, you're a cloud engineer--even if you work as a system administrator, software developer, data scientist, or site reliability engineer. With this book, professionals from around the world provide valuable insight into today's cloud engineering role. These concise articles explore the entire cloud computing experience, including fundamentals, architecture, and migration. You'll delve into security and compliance, operations and reliability, and software development. And examine networking, organizational culture, and more. You're sure to find 1, 2, or 97 things that inspire you to dig deeper and expand your own career. "Three Keys to Making the Right Multicloud Decisions," Brendan O'Leary "Serverless Bad Practices," Manases Jesus Galindo Bello "Failing a Cloud Migration," Lee Atchison "Treat Your Cloud Environment as If It Were On Premises," Iyana Garry "What Is Toil, and Why Are SREs Obsessed with It?", Zachary Nickens "Lean QA: The QA Evolving in the DevOps World," Theresa Neate "How Economies of Scale Work in the Cloud," Jon Moore "The Cloud Is Not About the Cloud," Ken Corless "Data Gravity: The Importance of Data Management in the Cloud," Geoff Hughes "Even in the Cloud, the Network Is the Foundation," David Murray "Cloud Engineering Is About Culture, Not Containers," Holly Cummins

Clinical Informatics Study Guide - John T. Finnell 2015-11-09
This books provides content that arms clinicians with the core knowledge and competencies necessary to be effective informatics leaders in health care organizations. The content is drawn from the areas recognized by the American

Council on Graduate Medical Education (ACGME) as necessary to prepare physicians to become Board Certified in Clinical Informatics. Clinical informaticians transform health care by analyzing, designing, selecting, implementing, managing, and evaluating information and communication technologies (ICT) that enhance individual and population health outcomes, improve patient care processes, and strengthen the clinician-patient relationship. As the specialty grows, the content in this book covers areas useful to nurses, pharmacists, and information science graduate students in clinical/health informatics programs. These core competencies for clinical informatics are needed by all those who lead and manage ICT in health organizations, and there are likely to be future professional certifications that require the content in this text.

Control Theory Tutorial - Steven A. Frank 2018-05-29
This open access Brief introduces the basic principles of control theory in a concise self-study guide. It complements the classic texts by emphasizing the simple conceptual unity of the subject. A novice can quickly see how and why the different parts fit together. The concepts build slowly and naturally one after another, until the reader soon has a view of the whole. Each concept is illustrated by detailed examples and graphics. The full software code for each example is available, providing the basis for experimenting with various assumptions, learning how to write programs for control analysis, and setting the stage for future research projects. The topics focus on robustness, design trade-offs, and optimality. Most of the book develops classical linear theory. The last part of the book considers robustness with respect to nonlinearity and explicitly nonlinear extensions, as well as advanced topics such as adaptive control and model predictive control. New students, as well as scientists from other backgrounds who want a

concise and easy-to-grasp coverage of control theory, will benefit from the emphasis on concepts and broad understanding of the various approaches.

Information Technology Control and Audit, Fifth Edition - Angel R. Otero 2018-07-27
The new fifth edition of Information Technology Control and Audit has been significantly revised to include a comprehensive overview of the IT environment, including revolutionizing technologies, legislation, audit process, governance, strategy, and outsourcing, among others. This new edition also outlines common IT audit risks, procedures, and involvement associated with major IT audit areas. It further provides cases featuring practical IT audit scenarios, as well as sample documentation to design and perform actual IT audit work. Filled with up-to-date audit concepts, tools, techniques, and references for further reading, this revised edition promotes the mastery of concepts, as well as the effective implementation and assessment of IT controls by organizations and auditors. For instructors and lecturers there are an instructor's manual, sample syllabi and course schedules, PowerPoint lecture slides, and test questions. For students there are flashcards to test their knowledge of key terms and recommended further readings. Go to http://routledgetextbooks.com/textbooks/978149 8752282/ for more information.

Healthcare Information Management Systems - Marion J. Ball 2013-04-17
Aimed at health care professionals, this book looks beyond traditional information systems and shows how hospitals and other health care providers can attain a competitive edge. Speaking practitioner to practitioner, the authors explain how they use information technology to manage their health care institutions and to support the delivery of clinical care. This second edition incorporates the far-reaching advances of the last few years, which have moved the field of health informatics

from the realm of theory into that of practice. Major new themes, such as a national information infrastructure and community networks, guidelines for case management, and community education and resource centres are added, while such topics as clinical and blood banking have been thoroughly updated.

Inventory Management with SAP S/4HANA - Bernd Roedel 2019-09-26
Jump-start your inventory operations in SAP S/4HANA! Review basic inventory practices and consult step-by-step instructions to configure SAP S/4HANA for your organization's requirements. Then put the system to work! Run the SAP Fiori applications that guide your core inventory workflows: inventory planning, goods receipt, core inventory, production planning, and inventory analysis. This hands-on guide to inventory has the details you need! In this book, you'll learn about: a. Inventory Planning Set up a successful inventory management system. Understand how to implement key planning strategies like make-to-order, make-to-stock, MRP Live, and Kanban in your SAP S/4HANA system. b. Inventory Execution Ensure your system runs smoothly. Tap into the potential of SAP Fiori applications and execute core inventory processes such as exception handling, physical inventory, transfers, and more. c. Inventory Analysis Make the most of your inventory analytics tools. See what's offered with SAP S/4HANA, such as real-time data and role-based design; then dive in to CDS views, KPI monitoring, custom queries, and more. Highlights Include: 1) Inventory optimization 2) Inventory planning 3) Goods receipt 4) Core inventory 5) Production planning 6) Inventory analysis 7) Configuration 8) Deployment 9) SAP Fiori applications

Data Mining with Rattle and R - Graham Williams 2011-08-04
Data mining is the art and science of intelligent data analysis. By building knowledge from information, data mining adds considerable

value to the ever increasing stores of electronic data that abound today. In performing data mining many decisions need to be made regarding the choice of methodology, the choice of data, the choice of tools, and the choice of algorithms. Throughout this book the reader is introduced to the basic concepts and some of the more popular algorithms of data mining. With a focus on the hands-on end-to-end process for data mining, Williams guides the reader through various capabilities of the easy to use, free, and open source Rattle Data Mining Software built on the sophisticated R Statistical Software. The focus on doing data mining rather than just reading about data mining is refreshing. The book covers data understanding, data preparation, data refinement, model building, model evaluation, and practical deployment. The reader will learn to rapidly deliver a data mining project using software easily installed for free from the Internet. Coupling Rattle with R delivers a very sophisticated data mining environment with all the power, and more, of the many commercial offerings.

World Wildlife Crime Report 2020 - United Nations Publications 2021-03-31
The report presents the latest assessment of global trends in wildlife crime. It includes discussions on illicit rosewood, ivory, rhino horn, pangolin scales, live reptiles, tigers and other big cats, and European eel. The COVID-19 (coronavirus) pandemic has highlighted that wildlife crime is a threat not only to the environment and biodiversity, but also to human health, economic development and security. Zoonotic diseases - those caused by pathogens that spread from animals to humans - represent up to 75% of all emerging infectious diseases. Trafficked wild species and the resulting products offered for human consumption, by definition, escape any hygiene or sanitary control, and therefore pose even greater risks of infection.

Business Process Management Workshops -

Ernest Teniente 2018-01-16
This book constitutes revised papers from the eleven International Workshops held at the 15th International Conference on Business Process Management, BPM 2017, in Barcelona, Spain, in September 2017: BPAI 2017 – 1st International Workshop on Business Process Innovation with Artificial Intelligence; BPI 2017 – 13th International Workshop on Business Process Intelligence; BP-Meet-IoT 2017 – 1st International Workshop on Ubiquitous Business Processes Meeting Internet-of-Things; BPMS2 2017 – 10th Workshop on Social and Human Aspects of Business Process Management; - CBPM 2017 – 1st International Workshop on Cognitive Business Process Management; CCABPM 2017 – 1st International Workshop on Cross-cutting Aspects of Business Process Modeling; DeHMiMoP 2017 – 5th International Workshop on Declarative/Decision/Hybrid Mining & Modeling for Business Processes; QD-PA 2017 – 1st International Workshop on Quality Data for Process Analytics; REBPM 2017 – 3rd International Workshop on Interrelations between Requirements Engineering and Business Process Management; SPBP 2017 – 1st Workshop on Security and Privacy-enhanced Business Process Management; TAProViz-PQ-IWPE 2017 –Joint International BPM 2017 Workshops on Theory and Application of Visualizations and Human-centric Aspects in Processes (TAProViz'17), Process Querying (PQ'17) and Process Engineering (IWPE17). The 44 full and 11 short papers presented in this volume were carefully reviewed and selected from 99 submissions.

Digital Contact Tracing for Pandemic Response - Jeffrey P. Kahn 2020-05-29
Contributors: Joseph Ali, JD; Anne Barnhill, PhD; Anita Cicero, JD; Katelyn Esmonde, PhD; Amelia Hood, MA; Brian Hutler, Phd, JD; Jeffrey P. Kahn, PhD, MPH; Alan Regenberg, MBE; Crystal Watson, DrPH, MPH; Matthew Watson; Robert Califf, MD, MACC; Ruth Faden, PhD, MPH;

Divya Hosangadi, MSPH; Nancy Kass, ScD; Alain Labrique, PhD, MHS, MS; Deven McGraw, JD, MPH, LLM; Michelle Mello, JD, PhD; Michael Parker, BEd (Hons), MA, PhD; Stephen Ruckman, JD, MSc, MAR; Lainie Rutkow, JD, MPH, PhD; Josh Sharfstein, MD; Jeremy Sugarman, MD, MPH, MA; Eric Toner, MD; Mar Trotochaud, MSPH; Effy Vayena, PhD; Tal Zarsky, JSD, LLM, LLB

Healthcare Operations Management - Daniel B. McLaughlin 2017
"This book aims to help healthcare management students and working professionals find ways to improve the delivery of healthcare, even with its complex web of patients, providers, reimbursement systems, physician relations, workforce challenges, and intensive government regulation. Taking an integrated approach, the book puts the tools and techniques of operations improvement in the context of healthcare so that readers learn how to increase the effectiveness and efficiency of tomorrow's healthcare system."

-- back of the book
Mediterranean Forum – Data Science Conference - Jasminka Hasic Telalovic 2021-04-01
This book constitutes selected and revised papers from the First Mediterranean Forum - Data Science Conference, MeFDATA 2020, held in Sarajevo, Bosnia and Herzegovina, in October 2020. The 11 papers presented were carefully reviewed and selected from the 26 qualified submissions. The papers are organized in the topical sections on human behaviour and pandemic; applications in medicine; industrial applications; natural language processing.
Synthesizing Evidence of Diagnostic Accuracy - Sarahlouise White 2011
Clinicians have long relied upon diagnostic tests for 'evidence' of the presence or absence of a disease or a condition. Similarly, policy makers must evaluate the value of a particular diagnostic test, compare it to any others, and decide which test should be made available or

funded. Methods to synthesize evidence from diagnostic test accuracy studies are now emerging and this text examines the methodological basis to the synthesis of diagnostic test accuracy data and describes the processes involved in the conduct of a diagnostic test accuracy systematic review. Although screening studies share some similarities with diagnostic studies and may report similar statistics, screening is typically applied to uncover very early signs of disease or the risk of disease, whereas diagnostic tests are generally applied to individuals with signs or symptoms of disease. Issues of meta-analysis of screening studies are discussed elsewhere.

Biomarkers in Drug Development - Michael R. Bleavins 2011-09-20
Discover how biomarkers can boost the success rate of drug development efforts As pharmaceutical companies struggle to improve the success rate and cost-effectiveness of the drug development process, biomarkers have emerged as a valuable tool. This book synthesizes and reviews the latest efforts to identify, develop, and integrate biomarkers as a key strategy in translational medicine and the drug development process. Filled with case studies, the book demonstrates how biomarkers can improve drug development timelines, lower costs, facilitate better compound selection, reduce late-stage attrition, and open the door to personalized medicine. Biomarkers in Drug Development is divided into eight parts: Part One offers an overview of biomarkers and their role in drug development. Part Two highlights important technologies to help researchers identify new biomarkers. Part Three examines the characterization and validation process for both drugs and diagnostics, and provides practical advice on appropriate statistical methods to ensure that biomarkers fulfill their intended purpose. Parts Four through Six examine the application of biomarkers in discovery, preclinical safety assessment, clinical

trials, and translational medicine. Part Seven focuses on lessons learned and the practical aspects of implementing biomarkers in drug development programs. Part Eight explores future trends and issues, including data integration, personalized medicine, and ethical concerns. Each of the thirty-eight chapters was contributed by one or more leading experts, including scientists from biotechnology and pharmaceutical firms, academia, and the U.S. Food and Drug Administration. Their contributions offer pharmaceutical and clinical researchers the most up-to-date understanding of the strategies used for and applications of biomarkers in drug development.

Eating Disorders and Obesity - Phillipa Hay 2019-05-27
Eating Disorders have traditionally been considered apart from public health concerns about increasing obesity. It is evident that these problems are, however, related in important ways. Comorbid obesity and eating disorder is increasing at a faster rate than either obesity or eating disorders alone and one in five people with obesity also presents with an Eating Disorder, commonly but not limited to Binge Eating Disorder. New disorders have emerged such as normal weight or Atypical Anorexia Nervosa. However research and practice too often occurs in parallel with a failure to understand the weight disorder spectrum and consequences of co-morbidity that then contributes to poorer outcomes for people living with a larger size and an Eating Disorder. Urgently needed are trials that will inform more effective assessment, treatment and care where body size and eating disorder symptoms are both key to the research question.

The Practice of Cloud System Administration - Thomas A. Limoncelli 2014-09-01
"There's an incredible amount of depth and thinking in the practices described here, and it's impressive to see it all in one place." —Win Treese, coauthor of Designing Systems for

Internet Commerce The Practice of Cloud System Administration, Volume 2, focuses on "distributed" or "cloud" computing and brings a DevOps/SRE sensibility to the practice of system administration. Unsatisfied with books that cover either design or operations in isolation, the authors created this authoritative reference centered on a comprehensive approach. Case studies and examples from Google, Etsy, Twitter, Facebook, Netflix, Amazon, and other industry giants are explained in practical ways that are useful to all enterprises. The new companion to the best-selling first volume, The Practice of System and Network Administration, Second Edition, this guide offers expert coverage of the following and many other crucial topics: Designing and building modern web and distributed systems Fundamentals of large system design Understand the new software engineering implications of cloud administration Make systems that are resilient to failure and grow and scale dynamically Implement DevOps principles and cultural changes IaaS/PaaS/SaaS and virtual platform selection Operating and running systems using the latest DevOps/SRE strategies Upgrade production systems with zero down-time What and how to automate; how to decide what not to automate On-call best practices that improve uptime Why distributed systems require fundamentally different system administration techniques Identify and resolve resiliency problems before they surprise you Assessing and evaluating your team's operational effectiveness Manage the scientific process of continuous improvement A forty-page, pain-free assessment system you can start using today

The American Psychiatric Association Practice Guidelines for the Psychiatric Evaluation of Adults, Third Edition - American Psychiatric Association 2015-07-29 Since the publication of the Institute of Medicine (IOM) report Clinical Practice Guidelines We Can Trust in 2011, there has been an increasing

emphasis on assuring that clinical practice guidelines are trustworthy, developed in a transparent fashion, and based on a systematic review of the available research evidence. To align with the IOM recommendations and to meet the new requirements for inclusion of a guideline in the National Guidelines Clearinghouse of the Agency for Healthcare Research and Quality (AHRQ), American Psychiatric Association (APA) has adopted a new process for practice guideline development. Under this new process APA's practice guidelines also seek to provide better clinical utility and usability. Rather than a broad overview of treatment for a disorder, new practice guidelines focus on a set of discrete clinical questions of relevance to an overarching subject area. A systematic review of evidence is conducted to address these clinical questions and involves a detailed assessment of individual studies. The quality of the overall body of evidence is also rated and is summarized in the practice guideline. With the new process, recommendations are determined by weighing potential benefits and harms of an intervention in a specific clinical context. Clear, concise, and actionable recommendation statements help clinicians to incorporate recommendations into clinical practice, with the goal of improving quality of care. The new practice guideline format is also designed to be more user friendly by dividing information into modules on specific clinical questions. Each module has a consistent organization, which will assist users in finding clinically useful and relevant information quickly and easily. This new edition of the practice guidelines on psychiatric evaluation for adults is the first set of the APA's guidelines developed under the new guideline development process. These guidelines address the following nine topics, in the context of an initial psychiatric evaluation: review of psychiatric symptoms, trauma history, and treatment history; substance use assessment; assessment of suicide risk;

assessment for risk of aggressive behaviors; assessment of cultural factors; assessment of medical health; quantitative assessment; involvement of the patient in treatment decision making; and documentation of the psychiatric evaluation. Each guideline recommends or suggests topics to include during an initial psychiatric evaluation. Findings from an expert opinion survey have also been taken into consideration in making recommendations or suggestions. In addition to reviewing the available evidence on psychiatry evaluation, each guideline also provides guidance to clinicians on implementing these recommendations to enhance patient care.

Complementary & Alternative Therapies in Nursing - Ruth Lindquist 2013-11-05 Print+CourseSmart

Ageing with Dignity in Hong Kong and Asia - Vincent Tin Sing Law
This book advocates the application of holistic and humanistic approaches in elderly care and services to achieve the goal of ageing with dignity in Hong Kong and Asia. It responds to the needs of an increasing ageing population that has to deal with related health needs in long-term care, community health and social services, particularly for chronic conditions and psychosocial support. The book consists of three sections on policy and development of aged care, holistic and humanistic care for older adults, and capacity building for ageing with dignity, respectively. Topics include the latest initiatives in aged care, appropriate services and delivery models, lifestyle modification, psychosocial and environmental considerations, professional development, technologies, and social capital. The chapters review and discuss these issues within a global context, illustrated by examples from Asian countries, underpinned by locally based empirical research. Contributors include academics and practitioners from diversified professional backgrounds that include medicine, nursing, pharmacy, traditional Chinese

medicine, dietetics, and allied health. The book traverses into territories in the social sciences, life sciences, and sports sciences, while also touching on areas of business and administration, hospitality, law, public policy, and information technology in connection with public health. The contents serve as a topical reference for tertiary studies in ageing and related disciplines such as well-being and are also useful to policymakers, community and public health practitioners, health executives and interns working in areas of policy and practice pertinent to care development, health delivery models, planning, quality, ethics, better health promotion, professional training, and monitoring for older adults.

Family Health Care Nursing - Joanna Rowe Kaakinen 2018-02-01
Prepare for the real world of family nursing care! Explore family nursing the way it's practiced today—with a theory-guided, evidence-based approach to care throughout the family life cycle that responds to the needs of families and adapts to the changing dynamics of the health care system. From health promotion to end of life, a streamlined organization delivers the clinical guidance you need to care for families. Significantly updated and thoroughly revised, the 6th Edition reflects the art and science of family nursing practice in today's rapidly evolving healthcare environments.

Trends and Applications in Information Systems and Technologies - Álvaro Rocha 2021-03-28
This book is composed of a selection of articles from The 2021 World Conference on Information Systems and Technologies (WorldCIST'21), held online between 30 and 31 of March and 1 and 2 of April 2021 at Hangra de Heroismo, Terceira Island, Azores, Portugal. WorldCIST is a global forum for researchers and practitioners to present and discuss recent results and innovations, current trends, professional experiences and challenges of modern information systems and technologies research,

together with their technological development and applications. The main topics covered are: A) Information and Knowledge Management; B) Organizational Models and Information Systems; C) Software and Systems Modeling; D) Software Systems, Architectures, Applications and Tools; E) Multimedia Systems and Applications; F) Computer Networks, Mobility and Pervasive Systems; G) Intelligent and Decision Support Systems; H) Big Data Analytics and Applications; I) Human–Computer Interaction; J) Ethics, Computers & Security; K) Health Informatics; L) Information Technologies in Education; M) Information Technologies in Radiocommunications; N) Technologies for Biomedical Applications.

Addressing Adversity - Marc Bush 2018-02-08 An edited collection of papers published by YoungMinds and funded by Health Education England. With 1 in 3 adult mental health conditions related directly to adverse childhood experiences, it is vital that we understand the impact that adversity and trauma can have on the mental health and wellbeing of young people, and how we can strengthen resilience and support recovery. Addressing Adversity presents evidence, insight, direction and case studies for commissioners, providers and practitioners in order to stimulate further growth in adversity and trauma-informed care, and spark innovation and good practice across England. Section 1: Understanding adversity, trauma and resilience includes evidence and analysis of the impact that adverse childhood experiences and trauma have on children and young people's mental health and wider outcomes across the lifecourse. Section 2: Addressing childhood adversity and trauma includes insights from the NHS in England, organisations and clinicians working with children and young people who have experienced forms of adversity and trauma. Section 3: Emerging good practice includes insight, case studies and working examples of

adversity and trauma-informed service models being developed across England. The collection ends with an agenda for change, calling on all Directors of Public Health, commissioners and providers to make adversity and trauma-informed care a priority in their locality.

Knowledge Management in Organizations - Lorna Uden 2019-06-11
This book contains the refereed proceedings of the 14th International Conference on Knowledge Management in Organizations, KMO 2019, held in Zamora, Spain, in July 2019. The 46 papers accepted for KMO 2018 were selected from 109 submissions and are organized in topical sections on: knowledge management models and analysis; knowledge transfer and learning; knowledge and service innovation; knowledge creation; knowledge and organization; information systems and information science; data mining and intelligent science; social networks and social aspects of KM; big data and IoT; and new trends in IT.