

Friedman Problem Oriented Medical Diagnosis

Racial and ethnic disparities in health care are known to reflect access to care and other issues that arise from differing socioeconomic conditions. There is, however, increasing evidence that even after such differences are accounted for, race and ethnicity remain significant predictors of the quality of health care received. In *Unequal Treatment*, a panel of experts documents this evidence and explores how persons of color experience the health care environment. The book examines how disparities in treatment may arise in health care systems and looks at aspects of the clinical encounter that may contribute to such disparities. Patients' and providers' attitudes, expectations, and behavior are analyzed. How to intervene? *Unequal Treatment* offers recommendations for improvements in medical care financing, allocation of care, availability of language translation, community-based care, and other arenas. The committee highlights the potential of cross-cultural education to improve provider-patient communication and offers a detailed look at how to integrate cross-cultural learning within the health professions. The book concludes with recommendations for data collection and research initiatives. *Unequal Treatment* will be vitally important to health care policymakers, administrators, providers, educators, and students as well as advocates for people of color.

Now in its updated Seventh Edition, this popular Spiral(R) Manual is a step-by-step guide to the diagnostic workup of 75 of the most common clinical problems in internal medicine. The book focuses on the analysis of the presenting signs and symptoms, history, and physical examination and the appropriate use of laboratory and radiologic studies to reach a definitive diagnosis. Each chapter presents detailed information in an easy-to-follow outline format. *Problem-Oriented Medical Diagnosis, Seventh Edition* is the ideal "how-to" guide for residents, medical students, and nurse practitioners. It is also a valuable, time-saving memory aid for practicing physicians. Paperback edition available only in selected countries. Please check with your local representative or distributor.

Designing Clinical Research sets the standard for providing a practical guide to planning, tabulating, formulating, and implementing clinical research, with an easy-to-read, uncomplicated presentation. This edition incorporates current research methodology—including molecular and genetic clinical research—and offers an updated syllabus for conducting a clinical research workshop. Emphasis is on common sense as the main ingredient of good science. The book explains how to choose well-focused research questions and details the steps through all the elements of study design, data collection, quality assurance, and basic grant-writing. All chapters have been thoroughly revised, updated, and made more user-friendly.

There are two crucial issues in the treatment and management of headache patients: More than 50% of individuals experiencing headache have only been treated symptomatically, with no appropriate diagnosis established; and history and neurologic examination are essential to establishing a diagnosis, and thus selecting appropriate therapy. *Headache and Migraine Biology and Management* is a practical text that addresses these issues, featuring contributions from expert clinical authors. The book covers in detail topics including chronic and episodic migraine, post-traumatic headache, sinus headache, cluster headache, tension headache, and others. Chapters are also dedicated to treatment subjects, including psychiatric and psychological approaches, medication overuse, inpatient treatment, and pediatric issues. This book is an ideal resource for researchers and clinicians, uniting practical discussion of headache biology, current ideas on etiology, future research, and genetic significance and breakthroughs. This resource is useful to those who want to understand headache biology, treat and manage symptoms, and for those performing research in the headache field. A practical discussion of headache biology, current ideas on etiology, future research, and genetic significance and breakthroughs

Features chapters from leading physicians and researchers in headache medicine Full-color text that includes both an overview of multiple disciplines and discusses the measures that can be used to treat headaches
 Charney & Nestler's *Neurobiology of Mental Illness*
Strategies for Improving Breast Cancer Detection and Diagnosis
Decision Making in Medicine
Practice Guideline for the Treatment of Patients with Schizophrenia
Remediation in Medical Education
The Computer-Based Patient Record

Family caregiving affects millions of Americans every day, in all walks of life. At least 17.7 million individuals in the United States are caregivers of an older adult with a health or functional limitation. The nation's family caregivers provide the lion's share of long-term care for our older adult population. They are also central to older adults' access to and receipt of health care and community-based social services. Yet the need to recognize and support caregivers is among the least appreciated challenges facing the aging U.S. population. Families Caring for an Aging America examines the prevalence and nature of family caregiving of older adults and the available evidence on the effectiveness of programs, supports, and other interventions designed to support family caregivers. This report also assesses and recommends policies to address the needs of family caregivers and to minimize the barriers that they encounter in trying to meet the needs of older adults.

Remediation in medical education is the act of facilitating a correction for trainees who started out on the journey toward becoming excellent physicians but have moved off course. This book offers an evidence-based and practical approach to the identification and remediation of medical trainees who are unable to perform to standards. As assessment of clinical competence and professionalism has become more sophisticated and ubiquitous, medical educators increasingly face the challenge of implementing effective and respectful means to work with trainees who do not yet meet expectations of the profession and society. Remediation in Medical Education: A Mid-Course Correction describes practical stepwise approaches to remediate struggling learners in fundamental medical competencies; discusses methods used to define competencies and the science underlying the fundamental shift in the delivery and assessment of medical education; explores themes that provide context for remediation, including professional identity formation and moral reasoning, verbal and nonverbal learning disabilities, attention deficit disorders in high-functioning individuals, diversity, and educational and psychiatric topics; and reviews system issues involved in remediation, including policy and leadership challenges and faculty development.

This book introduces the field of artificial intelligence in medicine, a new research area that combines sophisticated representational and computing techniques with the insights of expert physicians to produce tools for improving health care. An introductory chapter describes the historical and technical foundations of the work and provides an overview of the current state of the art and research directions. The authors then describe four prototype computer programs that tackle difficult clinical problems in a manner similar to that of an expert physician. The programs presented are internist, a diagnostic aid that combines a large database of disease/manifestation associations with techniques for problem formulation; expert and the Glaucoma Program which use physiological models for the diagnosis and treatment of eye disease; mycin, a rule-based program for diagnosis and therapy selection for infectious diseases; and the Digitalis Therapy Advisor, which aids the physician in prescribing the right dose of the drug digitalis and also explains its actions.

The Oxford Handbook of Stress, Health, and Coping is an essential reference work for students, practitioners, and researchers across the fields of health psychology, medicine, and palliative care. Featuring 22 topic-based chapters -- including two by Folkman -- this volume offers unprecedented coverage of the two primary research topics related to stress and coping: mitigating stress-related harms and sustaining well-being in the face of stress. Both topics are addressed within their relevant contexts, including chronic illness, calamity, bereavement, and social hardship. This handbook is sure to serve as the benchmark publication in this growing field for years to come.

Machine Learning

The Handbook of Medical Image Perception and Techniques

Health Behavior

Current Catalog

Making Eye Health a Population Health Imperative

Confronting Racial and Ethnic Disparities in Health Care (with CD)

Most industries have plunged into data automation, but health care organizations have lagged in moving patients' medical records from paper to computers. In its first edition, this book presented a blueprint for introducing the computer-based patient record (CPR). The revised edition adds new information to the original book. One section describes recent developments, including the creation of a computer-based patient record institute. An international chapter highlights what is new in this still-emerging technology. An expert committee explores the potential of machine-readable CPRs to improve diagnostic and care decisions, provide a database for policymaking, and much more, addressing these key questions: Who uses patient records? What technology is available and what further research is necessary to meet users' needs? What should government, medical organizations, and others do to make the transition to CPRs? The volume also explores such issues as privacy and confidentiality, costs, the need for training, legal barriers to CPRs, and other key topics.

The first medical specialty selection guide written by residents for students! Provides an inside look at the issues surrounding medical specialty selection, blending first-hand knowledge with useful facts and statistics, such as salary information, employment data, and match statistics. Focuses on all the major specialties and features firsthand portrayals of each by current residents. Also includes a guide to personality characteristics that are predominate with practitioners of each specialty. "A terrific mixture of objective information as well as factual data make this book an easy, informative, and interesting read." --Review from a 4th year Medical Student

First multi-year cumulation covers six years: 1965-70.

In his time the most famous physician in the world, Canadian-born William Osler (1849-1919) is still the best-known figure in the history of medicine. This new, definitive biography by Michael Bliss is the first full-scale life of Osler to appear since 1925. An award-winning medical historian, Bliss draws on many untapped sources to recreate Osler's life and medical times for a new generation of readers. Born at Bond Head, north of Toronto, Osler rose from obscurity to become the greatest medical teacher and writer in three countries. At Canada's McGill University, America's Johns Hopkins University, and finally as regius professor at Oxford, Osler was idolized by two generations of medical students and practitioners, for whom he came to personify the ideal doctor. His quest was to bring high standards and scientific methods into general practice in the medical world and to give teaching hospitals a solid place in the education of doctors. The publication of his book, *The Principles and Practice of Medicine* (1892), established him as the authority of modern medicine, a position he held well into the new century. Osler was revered as the high priest of the advent of twentieth-century medicine. In this fine biography, Michael Bliss animates the epic quality of Osler's life - not only in telling his personal story, but in setting that story against the dramatic backdrop of the coming of modern medicine. Winner of the Jason A. Hannah Medal, awarded by the Royal Society of Canada and the Hannah Institute for the History of Medicine

Families Caring for an Aging America

Unequal Treatment:

Psychology of Health

Pediatric Primary Care - E-Book

A Unifying Foundation

National Library of Medicine Current Catalog

DECISION MAKING IN MEDICINE offers an algorithmic approach to the diagnosis and treatment of common disorders and diseases. by providing nearly 250 clinical decision making algorithms, this practical reference helps you arrive at the proper diagnosis and also leads you to the appropriate therapy or course of action. Brief text appears on the page facing each algorithm to provide additional explanations or details about key decision points on the algorithm. Topics are organized by sign, symptom, problem, or laboratory abnormality. the consistent format and decision tree approach of DECISION MAK

Clinical reasoning is the foundation of professional clinical practice. Totally revised and updated, this book continues to provide the essential text on the theoretical basis of clinical reasoning in the health professions and examines strategies for assisting learners, scholars and clinicians develop their reasoning expertise. key chapters revised and updated nature of clinical reasoning sections have been expanded increase in emphasis on collaborative reasoning core model of clinical reasoning has been revised and updated

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.

The ability to see deeply affects how human beings perceive and interpret the world around them. For most people, eyesight is part of everyday communication, social activities, educational and professional pursuits, the care of others, and the maintenance of personal health, independence, and mobility. Functioning eyes and vision system can reduce an adult's risk of chronic health conditions, death, falls and injuries, social isolation, depression, and other psychological problems. In children, properly maintained eye and vision health contributes to a child's social development, academic achievement, and better health across the lifespan. The public generally recognizes its reliance on sight and fears its loss, but emphasis on eye and vision health, in general, has not been integrated into daily life to the same extent as other health promotion activities, such as teeth brushing; hand washing; physical and mental exercise; and various injury prevention behaviors. A larger population health approach is needed to engage a wide range of stakeholders in coordinated efforts that can sustain the scope of behavior change. The shaping of socioeconomic environments can eventually lead to new social norms that promote eye and vision health. *Making Eye Health a Population Health Imperative: Vision for Tomorrow* proposes a new population-centered framework to guide action and coordination among various, and sometimes competing, stakeholders in pursuit of improved eye and vision health and health equity in the United States. Building on the momentum of previous public health efforts, this report also introduces a model for action that highlights different levels of prevention activities across a range of stakeholders and provides specific examples of how population health strategies can be translated into cohesive areas for action at federal, state, and local levels.

William Osler

A Probabilistic Perspective

Clinical Manual of Contact Lenses

Theory, Research, and Practice

An Algorithmic Approach

The Oxford Handbook of Stress, Health, and Coping

Psychology of Health - Biopsychosocial Approach is based on the bio-psychosocial model of health, which aims to examine how biological, psychological, and social factors influence people's behavior regarding their health status. This book reflects the application of the bio-psychosocial model of health in many disciplines such as public health, psychology, psychiatric, mental health, community health, and nursing education. All the authors of this book have demonstrated how the bio-psychosocial model played an important role in addressing mental disease, tuberculosis, post-traumatic stress disorder, and obesity. This is an important book for students, academics, policy-makers, and community health practitioners.

"There is an apocryphal story of an eminent neurology professor who was asked to provide a differential diagnosis. He allegedly quipped: "I can't give you a differential diagnosis. If you wish I will give you a list of wrong diagnoses followed by the right diagnosis." Sadly, this sort of arrogance pervaded our field, particularly in the era before there were accurate diagnostic methods and effective treatments of neurological diseases. Fortunately, this sort of pomposity is now relegated to the past and remains only as an antique reminder of a type of hubris that precluded discovery and progress in diseases of the nervous system"--

Developed by experts on schizophrenia and exhaustively reviewed by APA members, the "American Psychiatric Association Practice Guideline for the Treatment of Patients With Schizophrenia" provides therapists with a set of patient care strategies that will aid their clinical decision making. The guideline describes the best and most appropriate treatments available to patients with schizophrenia, including psychopharmacological treatments, ECT, and psychosocial and community interventions. It delineates the process of treatment planning and identifies areas in which research may improve our understanding and management of this condition. This guideline will also help managed care organizations develop more scientifically based and clinically sensitive criteria for the utilization and reimbursement of psychiatric services. Armed with these guidelines, clinicians can improve the care of their patients with schizophrenia and enable them to lead happier and more productive lives.

A state-of-the-art review of key topics in medical image perception science and practice, including associated techniques, illustrations and examples. This second edition contains extensive updates and substantial new content. Written by key figures in the field, it covers a wide range of topics including signal detection, image interpretation and advanced image analysis (e.g. deep learning) techniques for interpretive and computational perception. It provides an overview of the key techniques of medical image perception and observer performance research, and includes examples and applications across clinical disciplines including radiology, pathology and oncology. A final chapter discusses the future prospects of medical image perception and assesses upcoming challenges and possibilities, enabling readers to identify new areas for research. Written for both newcomers to the field and experienced researchers and clinicians, this book provides a comprehensive reference for those interested in medical image perception as means to advance knowledge and improve human health.

Saving Women's Lives

Headache and Migraine Biology and Management

Cumulative listing

The Rational Clinical Examination: Evidence-Based Clinical Diagnosis

Building a Safer Health System

Neurologic Differential Diagnosis

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 errors"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.

Preceded by Neurobiology of mental illness / edited by Dennis S. Charney ... [et al.]. 4th ed. 2013.

The essential health behavior text, updated with the latest theories, research, and issues Health Behavior: Theory, Research and Practice provides a thorough introduction to understanding and changing health behavior, core tenets of the public health role. Covering theory, applications, and research, this comprehensive book has become the gold standard of health behavior texts. This new fifth edition has been updated to reflect the most recent changes in the public health field with a focus on health behavior, including coverage of the intersection of health and community, culture, and communication, with detailed explanations of both established and emerging theories. Offering perspective applicable at the individual, interpersonal, group, and community levels, this essential guide provides the most complete coverage of the field to give public health students and practitioners an authoritative reference for both the theoretical and practical aspects of health behavior. A deep understanding of human behaviors is essential for effective public health and health care management. This guide provides the most complete, up-to-date information in the field, to give you a real-world understanding and the background knowledge to apply it successfully. Learn how e-health and social media factor into health communication Explore the link between culture and health, and the importance of community Get up to date on emerging theories of health behavior and their applications Examine the push toward evidence-based interventions, and global applications Written and edited by the leading health and social behavior theorists and researchers, Health Behavior: Theory, Research and Practice provides the information and real-world perspective that builds a solid understanding of how to analyze and improve health behaviors and health.

Designed to be used as a quick reference, this fourth edition of the Clinical Manual of Contact Lenses allows readers to easily find the topic and information they need without having to search through an entire chapter to find it. Rigid gas permeable lens design and fitting, soft lens problem-solving, astigmatic management, and bifocal correction are just a few of the subjects covered in this manual. Each chapter includes sample cases to reinforce and demonstrate the practical nature of the topic, with nomograms and proficiency checklists summarizing and emphasizing the important points. With this guide, students and practitioners will have a dependable resource to help fit, evaluate, and troubleshoot any contact lenses, especially specialty designs for years to come. FEATURES: - Written by renowned experts in the field to guarantee accuracy of the information - New chapter on fitting young people with contact lenses addresses an important growth area - New chapter on scleral lenses - Chapters on the clinical management of keratoconus, postsurgical fitting, orthokeratology, presbyopia, extended wear, and correction of astigmatism have been greatly revised and updated - Designed as an everyday aid to fitting; the logical layout of cases allows easy access to information - Instructor's teaching aids are available as PowerPoint slides on the companion website

A Mid-Course Correction

Statistical Power Analysis for the Behavioral Sciences

Artificial Intelligence In Medicine

A Life in Medicine

Designing Clinical Research

Handbook of Critical Care

Computer-aided diagnosis (CAD) in medicine is the result of a large amount of effort expended in the interface of medicine and computer science. As some CAD systems in medicine try to emulate the diagnostic decision-making process of medical experts, they can be considered as expert systems in medicine.

The leading annually updated general medical text! CMDT 2004 is the most comprehensive, reliable, and timely reference available to answer common questions in everyday clinical practice. Written in a concise, easy-to-read style, the text covers all aspects of outpatient and inpatient care as well as authoritative descriptions of new developments in medicine. It includes information on over 1,000 diseases and disorders with an emphasis on prevention and cost-effective treatments. CMDT 2004 also features updated information on drug dosages and updated therapeutic options in HIV, including an approach to multi-drug antiretroviral therapies. "Provides a convenient, economical, up-to-date reference for all branches of hospital and ambulatory care medicine." --Annals of Internal Medicine, for a previous edition

The ultimate guide to the evidence-based clinical encounter "This book is an excellent source of supported evidence that provides useful and clinically relevant information for the busy practitioner, student, resident, or educator who wants to hone skills of physical diagnosis. It provides a tool to improve patient care by using the history and physical examination items that have the most reliability and efficiency."--Annals of Internal Medicine "The evidence-based examination techniques put forth by Rational Clinical Examination is the sort that can be brought to bear on a daily basis - to save time, increase confidence in medical decisions, and help decrease unnecessary testing for conditions that do not require absolute diagnostic certainty. In the end, the whole of this book is greater than its parts and can serve as a worthy companion to a traditional manual of physical examination."--Baylor University Medical Center (BUMC) Proceedings 5 STAR DOODY'S REVIEW! "Physical diagnosis has been taught to every medical student but this evidence-based approach now shows us why, presenting one of medicine's most basic tenets in a new and challenging light. The format is extraordinary, taking previously published material and updating the pertinent evidence since the initial publication, affirming or questioning or refining the conclusions drawn from the data. "This is a book for everyone who has studied medicine and found themselves doubting what they have been taught over the years, not that they have been deluded, but that medical traditions have been unquestionably believed because there was no evidence to believe otherwise. The authors have uncovered the truth. "This extraordinary, one-of-a-kind book is a valuable addition to every medical library."--Doody's Review Service Completely updated with new literature analyses, here is a uniquely practical, clinically relevant approach to the use of evidence in the content of physical examination. Going far beyond the scope of traditional physical examination texts, this invaluable resource compiles and presents the evidence-based meanings of signs, symptoms, and results from physical examination maneuvers and other diagnostic studies. Page after page, you'll find a focus on actual clinical questions and presentations, making it an incomparably practical resource that you'll turn to again and again. Importantly, the high-yield content of The Rational Clinical Examination is significantly expanded and updated from the original JAMA articles, much of it published here for the first time. It all adds up to a definitive, ready-to-use clinical exam sourcebook that no student or clinician should be without. FEATURES Packed with updated, new, and previously unpublished information from the original JAMA articles Standardized template for every issue covered, including: Case Presentation; Why the Issue Is Clinically Important; Research and Statistical Methods Used to Find the Evidence Presented; The Sensitivity and Specificity of Each Key Result; Resolution of the Case Presentation; and the Clinical Bottom Line Completely updated with all-new literature searches and appraisals supplementing each chapter Full-color format with dynamic clinical illustrations and images Real-world focus on a specific clinical question in each chapter, reflecting the way clinicians approach the practice of evidence-based medicine More than 50 complete chapters on common and challenging clinical questions and patient presentations Also available: JAMA Evidence.com, a new interactive database for the best practice of evidence based medicine

Children are already learning at birth, and they develop and learn at a rapid pace in their early years. This provides a critical foundation for lifelong progress, and the adults who provide for the care and the education of young children bear a great responsibility for their health, development, and learning. Despite the fact that they share the same objective - to nurture young children and secure their future success - the various practitioners who contribute to the care and the education of children from birth through age 8 are not acknowledged as a workforce unified by the common knowledge and competencies needed to do their jobs well.

Transforming the Workforce for Children Birth Through Age 8 explores the science of child development, particularly looking at implications for the professionals who work with children. This report examines the current capacities and practices of the workforce, the settings in which they work, the policies and infrastructure that set qualifications and provide professional learning, and the government agencies and other funders who support and oversee these systems. This book then makes recommendations to improve the quality of professional practice and the practice environment for care and education professionals. These detailed recommendations create a blueprint for action that builds on a unifying foundation of child development and early learning, shared knowledge and competencies for care and education professionals, and principles for effective professional learning. Young children thrive and learn best when they have secure, positive relationships with adults who are knowledgeable about how to support their development and learning and are responsive to their individual progress. Transforming the Workforce for Children Birth Through Age 8 offers guidance on system changes to improve the quality of professional practice, specific actions to improve professional learning systems and workforce development, and research to continue to build the knowledge base in ways that will directly advance and inform future actions. The recommendations of this book provide an opportunity to improve the quality of the care and the education that children receive, and ultimately improve outcomes for children.

Transforming the Workforce for Children Birth Through Age 8

The American Psychiatric Association Practice Guidelines for the Psychiatric Evaluation of Adults, Third Edition

Improving Diagnosis in Health Care

The Ultimate Guide To Choosing a Medical Specialty

To Err Is Human

Current Medical Diagnosis and Treatment 2004

A comprehensive introduction to machine learning that uses probabilistic models and inference as a unifying approach. Today's Web-enabled deluge of electronic data calls for automated methods of data analysis. Machine learning provides these, developing methods that can automatically detect patterns in data and then use the uncovered patterns to predict future data. This textbook offers a comprehensive and self-contained introduction to the field of machine learning, based on a unified, probabilistic approach. The coverage combines breadth and depth, offering necessary background material on such topics as probability, optimization, and linear algebra as well as discussion of recent developments in the field, including conditional random fields, L1 regularization, and deep learning. The book is written in an informal, accessible style, complete with pseudo-code for the most important algorithms. All topics are copiously illustrated with color images and worked examples drawn from such application domains as biology, text processing, computer vision, and robotics. Rather than providing a cookbook of different heuristic methods, the book stresses a principled model-based approach, often using the language of graphical models to specify models in a concise and intuitive way. Almost all the models described have been implemented in a MATLAB software package—PMTK (probabilistic modeling toolkit)—that is freely available online. The book is suitable for upper-level undergraduates with an introductory-level college math background and beginning graduate students.

Established for more than 75 years, The Washington Manual of Medical Therapeutics, 36th Edition , provides concise, high-yield content that reflects today's fast-changing advances in medical technology and therapeutics. In one convenient, portable resource, you'll find complete coverage of every area of medicine and the core subspecialties—all at your fingertips for quick review and reference. Discover why housestaff and faculty worldwide depend on this best-selling resource for day-to-day clinical practice in internal medicine.

Statistical Power Analysis is a nontechnical guide to power analysis in research planning that provides users of applied statistics with the tools they need for more effective analysis. The Second Edition includes: * a chapter covering power analysis in set correlation and multivariate methods; * a chapter considering effect size, psychometric reliability, and the efficacy of "qualifying" dependent variables and; * expanded power and sample size tables for multiple regression/correlation.

This updated printing of the leading text and reference in digital systems testing and testable design provides comprehensive, state-of-the-art coverage of the field. Included are extensive discussions of test generation, fault modeling for classic and new technologies, simulation, fault simulation, design for testability, built-in self-test, and diagnosis. Complete with numerous problems, this book is a must-have for test engineers, ASIC and system designers, and CAD developers, and advanced engineering students will find this book an invaluable tool to keep current with recent changes in the field.

Clinical Reasoning in the Health Professions

DSM-5 in Action

An Essential Technology for Health Care, Revised Edition

Biopsychosocial Approach

Problem-oriented Medical Diagnosis

A Systematic Survey of Computer-Aided Diagnosis in Medicine: Past and Present Developments

Get an in-depth look at pediatric primary care through the eyes of a Nurse Practitioner! Pediatric Primary Care, 6th Edition guides readers through the process of assessing, managing, and preventing health problems in infants, children, and adolescents.

Key topics include developmental theory, issues of daily living, the health status of children today, and diversity and cultural considerations. This sixth edition also features a wealth of new content and updates — such as a new chapter on pediatric pharmacology, full-color design and illustrations, new QSEN integration, updated coverage of the impact of the Affordable Care Act, a refocused chapter on practice management, and more — to keep readers up to date on the latest issues affecting practice today. Comprehensive content provides a complete foundation in the primary care of children from the unique perspective of the Nurse Practitioner and covers the full spectrum of health conditions seen in the primary care of children, emphasizing both prevention and management. In-depth guidance on assessing and managing pediatric health problems covers patients from infancy through adolescence. Four-part organization includes 1) an introductory unit on the foundations of global pediatric health, child and family health assessment, and cultural perspectives for pediatric primary care; 2) a unit on managing child development; 3) a unit on health promotion and management; and 4) a unit on disease management. Content devoted to issues of daily living covers issues that are a part of every child's growth — such as nutrition and toilet training — that could lead to health problems unless appropriate education and guidance are given. Algorithms are used throughout the book to provide a concise overview of the evaluation and management of common disorders. Resources for providers and families are also included throughout the text for further information. Expert editor team well is well-versed in the scope of practice and knowledge base of Pediatric Nurse Practitioners (PNPs) and Family Nurse Practitioners (FNPs).

Experts estimate that as many as 98,000 people die in any given year from medical errors that occur in hospitals. That's more than die from motor vehicle accidents, breast cancer, or AIDS—three causes that receive far more public attention. Indeed, more people die annually from medication errors than from workplace injuries. Add the financial cost to the human tragedy, and medical error easily rises to the top ranks of urgent, widespread public problems. To Err Is Human breaks the silence that has surrounded medical errors and their consequences—but not by pointing fingers at caring health care professionals who make honest mistakes. After all, to err is human. Instead, this book sets forth a national agenda—with state and local implications—for reducing medical errors and improving patient safety through the design of a safer health system. This volume reveals the often startling statistics of medical error and the disparity between the incidence of error and public perception of it, given many patients' expectations that the medical profession always performs perfectly. A careful examination is made of how the surrounding forces of legislation, regulation, and market activity influence the quality of care provided by health care organizations and then looks at their handling of medical mistakes. Using a detailed case study, the book reviews the current understanding of why these mistakes happen. A key theme is that legitimate liability concerns discourage reporting of errors—which begs the question, "How can we learn from our mistakes?" Balancing regulatory versus market-based initiatives and public versus private efforts, the Institute of Medicine presents wide-ranging recommendations for improving patient safety, in the areas of leadership, improved data collection and analysis, and development of effective systems at the level of direct patient care. To Err Is Human asserts that the problem is not bad people in health care—it is that good people are working in bad systems that need to be made safer. Comprehensive and straightforward, this book offers a clear prescription for raising the level of patient safety in American health care. It also explains how patients themselves can influence the quality of care that they receive once they check into the hospital. This book will be vitally important to federal, state, and local health policy makers and regulators, health professional licensing officials, hospital administrators, medical educators and students, health caregivers, health journalists, patient advocates—as well as patients themselves. First in a series of publications from the Quality of Health Care in America, a project initiated by the Institute of Medicine

The outlook for women with breast cancer has improved in recent years. Due to the combination of improved treatments and the benefits of mammography screening, breast cancer mortality has decreased steadily since 1989. Yet breast cancer remains a major problem, second only to lung cancer as a leading cause of death from cancer for women. To date, no means to prevent breast cancer has been discovered and experience has shown that treatments are most effective when a cancer is detected early, before it has spread to other tissues. These two facts suggest that the most effective way to continue reducing the death toll from breast cancer is improved early detection and diagnosis. Building on the 2001 report Mammography and Beyond, this new book not only examines ways to improve implementation and use of new and current breast cancer detection technologies but also evaluates the need to develop tools that identify women who would benefit most from early detection screening. Saving Women's Lives: Strategies for Improving Breast Cancer Detection and Diagnosis encourages more research that integrates the development, validation, and analysis of the types of technologies in clinical practice that promote improved risk identification techniques. In this way, methods and technologies that improve detection and diagnosis can be more effectively developed and implemented.

Full exploitation of the DSM-5 allows for more comprehensive care By demystifying the DSM-5, author Sophia Dziegielewska goes beyond the traditional diagnostic assessment and suggests both treatment plans and practice strategy. She covers the changes in criteria to the DSM-5 and what those changes mean for mental health professionals. This resource has been updated to include: New and updated treatment plans All treatment plans, interventions strategies, applications, and practice implications are evidence based Instructions on doing diagnostic assessments and differential diagnosis using the DSM-5 Changes to coding and billing using the DSM-5 and ICD-10 The book includes robust tools for students, instructors, and new graduates seeking licensure. DSM-5 in Action makes the DSM-5 accessible to all practitioners, allowing for more accurate, comprehensive care.

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