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Conceived and written by two of the countrys leading authorities on the relationship of head injury and family matters, this book opens the frequently locked doors to accessible information. The format is a combination of original material, personal statements by survivors and their families, and structured experiences. The revision will retain its central theme of family-oriented treatment with a rehabilitative perspective. Hand drawing and sketching are fundamental aspects for visual communication in the design field. Individuals can use these two techniques to improve their understanding of spatial concepts, to provide common language for translation of visual ideas and to assist with developing creative design solutions. This book provides every student with an opportunity to learn hand design drawing skills. Students are progressed from very basic drawing techniques to the drawing of complete interior perspective rooms. The step-by-step

instructions, hand drawn illustrations and video demonstrations, provide effective support material for this process. In addition, creative strategies and helpful hints throughout the book encourage students to overcome typical obstacles. Creating realistic drawings in proportion depends on the ability to draw a box in perspective. Therefore, the basic theory of this book uses the box method of drawing. Furthermore, all of the objects illustrated are interior elements, furniture and accessories. Each of the three sections in the book builds upon the other. Part I, Drawing Fundamentals, focuses on techniques for learning basic line drawing skills. It covers drawing various forms and the adding of value, texture, pattern, shade and shadow. Part II, Drawing Interior Elements, demonstrates techniques for drawing furniture in one-point and two-point perspective. It also includes instruction for drawing plants, tabletop objects, accessories and window treatments. Finally, Part III, Perspective Drawing, provides detailed instructions for drawing one-point and two-point perspectives of interior spaces. This section provides students the opportunity to bring together all they have learned in previous sections and apply it to toward communicating design ideas. This edition also contains a new section on Advanced Perspective Techniques, which provides a variety of tips and techniques for creating and embellishing perspective drawings. Traditional books on machine learning can be divided into two groups- those aimed at advanced undergraduates or early postgraduates with reasonable mathematical knowledge and those that are primers on how to code algorithms. The field is ready for a text that not only demonstrates how to use the algorithms that make up machine learning methods, but The authors present an integrated marketing approach to contemporary advertising. This new edition has been substantially updated to take account of the changes in the

advertising industry that have marked the advent of the 21st century. This book presents a diagnostic system of signs and symptoms analysis that focuses on the most important questions you should be asking your patients. The questions are organized by body systems and will help you gather more information on the functional state of your patients. Whether you are a well-seasoned doctor, fresh from medical school, or a patient looking for answers to your questions you will refer to this book again and again. You will discover how easy it is to identify where the symptom burden is located in the body, increase your efficiency of history taking in the office, implement new tools and techniques to dramatically improve your clinical outcomes, cut the amount of time you spend taking a patient history, and make your initial history an indispensable screening tool. Your signs and symptoms analysis will finally mean something to you and your patients. A collection of fully-revised and new essays that explore the richness of Jewish women's history. Focusing on the major industrialized democracies this volume presents a systematic, comparative study of immigration policy and policy outcomes in the profiled nations for which data is available. Methodology -- Cultural Analysis -- Summary and Conclusion -- 8 An Assessment of World-System Theory -- Strengths -- Weaknesses -- Other Directions in the Study of Global Change -- Summary and Conclusion -- Notes -- Bibliography -- About the Book and Author -- Index Galois theory is the culmination of a centuries-long search for a solution to the classical problem of solving algebraic equations by radicals. This book follows the historical development of the theory, emphasizing concrete examples along the way. It is suitable for undergraduates and beginning graduate students. Through this book's unique model comparison approach, students and researchers are introduced to a set of fundamental principles for analyzing data. After seeing

how these principles can be applied in simple designs, students are shown how these same principles also apply in more complicated designs. Drs. Maxwell and Delaney believe that the model comparison approach better prepares students to understand the logic behind a general strategy of data analysis appropriate for various designs; and builds a stronger foundation, which allows for the introduction of more complex topics omitted from other books. Several learning tools further strengthen the reader's understanding: *flowcharts assist in choosing the most appropriate technique; *an equation cross-referencing system aids in locating the initial, detailed definition and numerous summary equation tables assist readers in understanding differences between different methods for analyzing their data; *examples based on actual research in a variety of behavioral sciences help students see the applications of the material; *numerous exercises help develop a deeper understanding of the subject. Detailed solutions are provided for some of the exercises and *realistic data sets allow the reader to see an analysis of data from each design in its entirety. Updated throughout, the second edition features: *significantly increased attention to measures of effects, including confidence intervals, strength of association, and effect size estimation for complex and simple designs; *an increased use of statistical packages and the graphical presentation of data; *new chapters (15 & 16) on multilevel models; *the current controversies regarding statistical reasoning, such as the latest debates on hypothesis testing (ch. 2); *a new preview of the experimental designs covered in the book (ch. 2); *a CD with SPSS and SAS data sets for many of the text exercises, as well as tutorials reviewing basic statistics and regression; and *a Web site containing examples of SPSS and SAS syntax for analyzing many of the text exercises. Appropriate for advanced courses on

experimental design or analysis, applied statistics, or analysis of variance taught in departments of psychology, education, statistics, business, and other social sciences, the book is also ideal for practicing researchers in these disciplines. A prerequisite of undergraduate statistics is assumed. An Instructor's Solutions Manual is available to those who adopt the book for classroom use. Print+CourseSmart Human Behavior in the Social Environment from an African-American Perspective, Second Edition is an updating of the classic text that presents leading black scholars discussing complex human behavior problems faced by African-Americans in today's society. This new edition provides fresh theories and the latest practical interventions not in the first edition that show, for example, how to enhance a client's coping strategies and resilience by focusing on their strengths rather than their weaknesses. This edition includes a new foreword by former Surgeon General, Dr. Joycelyn Elders. Human Behavior in the Social Environment from an African-American Perspective, Second Edition acquaints practitioners with the Black experience, and provides the latest innovative methods of working with this diverse population. This edition also offers new insights on evaluating practice initiatives. Experts and scholars explore and interpret individual and group behaviors, the strength and resilience of the black family, the stresses and problems affecting children, the significant problem of the affects of colorism, the self-esteem and identity issues of biracial children, violence in the criminal justice system, the HIV/AIDS pandemic, the stress and behaviors resulting from belonging to the armed services, and other behavior stemming from progression through the life cycle. Chapters include charts and tables of data, extensive references, and study questions for deeper study for students. Topics in Human Behavior in the Social Environment from an

African-American Perspective, Second Edition include: the importance of the consideration of the black experience in analyzing black behavior behavior as a response to a hostile social system the black church's role in leading African-Americans resiliency perspective as a positive force the use of strength behaviors for socialization and survival strategies to strengthen roles of fathers in African-American families military culture as a microcosm of the wider society the psychological effects of skin color on self-esteem the No Child Left Behind Act of 2001 and its effects refreshing social work practice to better meet the needs of African-American girls examination of a study on the help-seeking behaviors of young African-American males empirically based creative intervention strategies to alleviate black-on-black crime analysis of street gang behaviors with a program to address it influences of hip hop culture strategies to lessen substance abuse in children practices that help assist administrators and social workers to lessen school violence Human Behavior in the Social Environment from an African-American Perspective, Second Edition is a supplementary text that is valuable for undergraduate and graduate students, human service practitioners, mental health and medical counselors, policymakers, school officials, and criminal justice personnel. Use your social work skills to advocate for more effective health care! Social Work in the Health Field: A Care Perspective, Second Edition updates this comprehensive guide to social work practice and policy issues in the health field. An easy-to-use textbook for graduate and undergraduate courses and a practical guide for social work practitioners, the book will help you meet the demands of the growing population of clients in nursing homes or hospice care and for the decline of traditional hospital-based social work. Complete with an instructor's manual to help

you facilitate lectures, class discussions, and tests, this new edition focuses even more strongly than the first on prevention and health promotion at the community level as well as the individual client level, the relevance of social environmental conditions to the health of populations, and the growing importance of social work in the health field. *Social Work in the Health Field: A Care Perspective, Second Edition* is an overview of social work practice in various health care settings. The book addresses the historical background of social work in health care, theoretical perspectives, organizational considerations, theory and practice of interdisciplinary teamwork, client problems, skill and knowledge requirements, values and ethics considerations, and recent developments in hospital social work. New material in this edition includes: an update on primary health care—how social workers can modify communities and social environmental conditions to reduce social inequities and enhance social supports and integration within populations an updated critique of the health care system in the United States—what social workers need to know and the changes they need to make to advocate effectively updates on research findings and statistical data

Praise for the first edition of *Social Work in the Health Field*: “VERY USEFUL TO STUDENTS. . . . One of the few works available that includes a useful discussion of social work practice in nursing homes.” —Choice “EFFECTIVE. . . . presents generic and special knowledge requirements for social work practice in health care settings, including values, ethics, and issues of diversity.” —*Social Work Agenda* “The book is CLEARLY WRITTEN, and is thought-provoking concerning the role of the social work practitioner in health settings and the nature of the linkage between health and social care. Despite the fact that it is American in origin, it is of relevance to multi-disciplinary and international audiences and

contains much which will be OF INTEREST TO STUDENTS AND EDUCATORS AS WELL AS PRACTITIONERS.”

—Journal of Social Work A collection of chapters on the essential topics in cultural anthropology. Different from other introductory textbooks, this book is an edited volume with each chapter written by a different author. Each author has written from their experiences working as an anthropologist and that personal touch makes for an accessible introduction to cultural anthropology. Parenting: An Ecological Perspective was originally created in 1993. Luster and Okigaki have updated the original text focusing on parental behavior and also included new chapters covering topics such as: Fathers/gender of parent; Children with special needs; Ethnicity and socioeconomic status; and Parent education. Property Law: Practice, Problems, and Perspectives, Second Edition is a truly contemporary 1L Property text. This book is distinguished by its extraordinarily clear and engaging writing, and by the degree to which the authors make the material accessible and enjoyable to students in this foundational course. The authors embrace the task of training lawyers, and as a result, their text regularly asks students to answer questions and solve problems from the perspective of attorneys. The authors delve fully into legal doctrine and address profound policy issues in a direct and understandable manner, drawing upon an outstanding range of case opinions, including those from seminal cases as well those from recent and provocative disputes. The text uses a two-color design and includes a wonderful selection of photographs. Important documents useful to teaching particular cases and material are reproduced throughout. Property Law: Practice, Problems, and Perspectives is more than just a text. It incorporates a truly unique online simulation that features practice-ready materials and professionally-produced, author-

scripted videos that illuminate property law issues and disputes. The text regularly references documents used in practice, which are available to students in the simulation. New to the Second Edition: Revised and updated case opinions and textual discussion. For example: The section addressing the Fair Housing Act now includes a discussion of disparate impact litigation after *Texas Dept. of Housing and Community Affairs v. Inclusive Communities Project, Inc.* The chapter devoted to takings law now includes summaries of *Horne v. Dept. of Agriculture* and *Murr v. Wisconsin*. New and sometimes startling images, such as a subdivision-marketing poster from San Diego in 1915 that offers a frightening example of pervasive discriminatory housing practices that existed prior to the Fair Housing Act. Enjoyable new problems drawn from reported case opinions. For example, the problem of “The Obstinate Ex,” involving a couple who live together in a home owned individually by one of them. When that person breaks off the relationship, the other refuses to move out, claiming an interest in the property. Professors and students will benefit from: A blend of property doctrine and real-world practice, featuring a stimulating, challenging presentation that is also transparent. The book retains the subtlety of the classic texts but comments explicitly on the overlapping elements to ensure that students can see all the connections among legal doctrines. A unique interactive element that teaches students how to read a land survey, helping them understand the issues presented by the text in case opinions and problems. The transactional perspective adopted by the authors in relevant chapters, such as real estate transactions and landlord/tenant law. A unique border along the edge of the text in the chapter on the real property transaction, allowing students to place key concepts and doctrinal material in the context of phases of the transaction. A robust electronic

version of the casebook, along with online videos and practice-ready materials. A book that is the ideal text for a four-unit course, but includes ample coverage permitting a professor to construct a five- or six-unit course. The purchase of this Kindle edition does not entitle you to receive access to the online e-book, practice questions from your favorite study aids, and outline tool available through CasebookConnect. "One of the great things about the book is the way the authors explain concepts very simply using analogies rather than programming examples—this has been very inspiring for a product I'm working on: an audio-only introduction to OOP and software development." —Bruce Eckel "...I would expect that readers with a basic understanding of object-oriented programming and design would find this book useful, before approaching design patterns completely. Design Patterns Explained complements the existing design patterns texts and may perform a very useful role, fitting between introductory texts such as UML Distilled and the more advanced patterns books." —James Noble Leverage the quality and productivity benefits of patterns—without the complexity! Design Patterns Explained, Second Edition is the field's simplest, clearest, most practical introduction to patterns. Using dozens of updated Java examples, it shows programmers and architects exactly how to use patterns to design, develop, and deliver software far more effectively. You'll start with a complete overview of the fundamental principles of patterns, and the role of object-oriented analysis and design in contemporary software development. Then, using easy-to-understand sample code, Alan Shalloway and James Trott illuminate dozens of today's most useful patterns: their underlying concepts, advantages, tradeoffs, implementation techniques, and pitfalls to avoid. Many patterns are accompanied by UML diagrams. Building on their best-selling First Edition,

Shalloway and Trott have thoroughly updated this book to reflect new software design trends, patterns, and implementation techniques. Reflecting extensive reader feedback, they have deepened and clarified coverage throughout, and reorganized content for even greater ease of understanding. New and revamped coverage in this edition includes Better ways to start "thinking in patterns" How design patterns can facilitate agile development using eXtreme Programming and other methods How to use commonality and variability analysis to design application architectures The key role of testing into a patterns-driven development process How to use factories to instantiate and manage objects more effectively The Object-Pool Pattern—a new pattern not identified by the "Gang of Four" New study/practice questions at the end of every chapter Gentle yet thorough, this book assumes no patterns experience whatsoever. It's the ideal "first book" on patterns, and a perfect complement to Gamma's classic Design Patterns. If you're a programmer or architect who wants the clearest possible understanding of design patterns—or if you've struggled to make them work for you—read this book. In this second edition, Thomas Shannon extends his overall assessment of the world-system perspective to include the new theoretical and empirical developments in the field since 1989. Incorporating most leading arguments of world-system theorists, he addresses the fall of the Eastern Bloc as well as such current topics as relations with indigenous peoples, cultural analysis, methodology, women, and race. He discusses world-system analysis as a flexible and changing paradigm and considers future directions in the field. This advanced undergraduate and graduate-level text is the only book that provides an introduction to the world-system approach to the study of modern social change. Tracing the general antecedents of world-system theory and describing its major

tenets, Shannon focuses on the basic characteristics and components of the world-system and the economic and political relationships within it. He characterizes changes within the system, including social and economic trends, cycles of great power leadership, and events and policies by which states rise or fall in importance. Foundations of Low Vision: Clinical and Functional Perspectives, the ground-breaking text that highlighted the importance of focusing on the functional as well as the clinical implications of low vision, has been completely updated and expanded in this second edition. The revised edition goes even further in its presentation of how best to assess and support both children and adults with low vision and plan programs and services that optimize their functional vision and ability to lead productive and satisfying lives, based on individuals' actual abilities. Part 1, Personal and Professional Perspectives, provides the foundations of this approach, with chapters focused on the anatomy of the eye, medical causes of visual impairment, optics and low vision devices, and clinical low vision services, as well as psychological and social implications of low vision and the history of the field. Part 2 focuses on children and youths, providing detailed treatment of functional vision assessment, instruction, use of low vision devices, orientation and mobility, and assistive technology. Part 3 presents rehabilitation and employment issues for working-age adults and special considerations for older adults. The second edition of this compelling and popular book offers a unique global perspective on children's lives throughout the world. It shows how the notion of childhood is being radically re-shaped, in part as a consequence of globalization. Taking an engaging historical and comparative approach, the book explores social issues such as how children are constituted as raced, classed and gendered subjects; how children's involvement in war is

connected to the globalization of capitalism and organized crime; and how school and work operate as sites for the governing of childhood. The book discusses wide-ranging topics including children's rights, the family, children and war, child labour and young people's activism around the globe. In addition to updated literature throughout, the revised edition includes new chapters on migration and trafficking, and the role of play. The book will continue to be of great value to students and scholars in the fields of sociology, geography, social policy and development studies. It will also be a valuable companion to practitioners of international development and social work, as well as to anyone interested in childhood in the contemporary world. A fully revised and updated edition of this back-to-basics title, packed with the fundamental concepts, conventions and theory needed when creating art. The politics-administration dichotomy is much mentioned and often criticized in the Public Administration literature. The Politics-Administration Dichotomy: Toward a Constitutional Perspective, Second Edition offers a book-length treatment of this classical notion. While public administration academics typically reject it as an outdated and even dangerous idea, it re-emerges implicitly in their analyses. This book tells the story of how this has happened and suggests a way to get out of the quandary. It analyzes the dichotomy position in terms of content, purpose, and relevance. What's in the Second Edition Extensive study of the politics-administration dichotomy as a classic idea in Public Administration A much-overlooked constitutionalist line of argument in defense of this widely discredited notion Exploration and further development of the intellectual legacy of Dwight Waldo Coverage of the dichotomy's conceptual origins in 18th and 19th century Continental-European thought An assessment of main criticisms against and alternatives for the

dichotomy presented in the literature Contributions to the newly emerging Constitutional School in the study of public administration An argument against the institutional separation of Political Science and Public Administration in academia Completely revised and updated, the book examines the idea that politics and public administration should be separated in our theories and practices of government. A combination of history of ideas and theoretical analysis, it reconstructs the dichotomy's conceptual origins and classical understandings and gives an assessment of the main criticisms raised against it and the chief alternatives suggested for it. Arguing that one-sided interpretations have led to the dichotomy's widespread but wrongful dismissal, the study shows how it can be recovered as a meaningful idea when understood as a constitutional principle. This study helps readers make sense of highly confused debates and challenge the issues with an original and provocative stance. A complete, state-of-the-art bible of interprofessional primary care in one easy-to-use resource for Interprofessional Primary Care A truly interprofessional primary care textbook, created by DNP/APRN, MD, PharmD, PA, CNS, and CNM Evidence-based practice guidelines for Primary Care Includes community care, team work, and wellness coachings Strong guidance on differential diagnosis, disease prevention, risk reduction and lifestyle management Across the lifespan focus PLUS gender, occupational and palliative care considerations Case Studies in PPT format available to faculty adopting the text This second edition of Primary Care delivers succinct, current, and integrated information on the assessment, differential diagnosis, treatment, and management of individuals with commonly seen conditions in primary care settings. Written and edited by APNs, MDs, PAs, PharmDs and other health professionals, it emphasizes guidance on differential diagnosis,

interprofessional primary care, lifestyle management, health promotion, risk reduction, and disease prevention. The text features relationship-centered care, extensive coverage of age, gender, and occupational considerations; complementary approaches; nutritional assessment; violence exposure and vulnerability assessment; family, community, and cultural assessment; palliative care; and evidence-based practice guidelines. This important text presents current diagnostic criteria for each condition and includes relevant anatomy, pathology, and physiology, epidemiology of the condition, including cultural and economic factors, risk identification, and disease prevention strategies. Also included are related laboratory studies, the focused physical exam, wellness coaching, treatment options, potential pitfalls, and much more. Additionally, the book includes clinical "pearls", clinical warnings, referrals and warning points, and references. The text is of value to all interprofessional primary care providers, with a special focus on the needs of advanced practice nurses and MSN/DNP students, and as a course textbook for teaching primary health care topics

New to the Second Edition: Increased focus on interprofessional primary care, including community care, team work, and wellness coaching
Strong guidance on differential diagnosis, disease prevention, risk reduction and lifestyle management
Broad team of interprofessional authors and editors
Special focus on elder/geriatric primary care and palliative care
Evidence-based practice guidelines
Stronger focus on age, gender, and occupational considerations
Focus on age, gender, and occupational considerations
Case Studies in PPT format available to faculty adopting the text
The go-to resource for clinical and forensic practice has now been significantly revised with 85% new material, reflecting the tremendous growth of the field. Leading authorities synthesize

the state of the science on symptom feigning in cognitive testing and present evidence-based recommendations for distinguishing between credible and noncredible performance. A wide range of performance validity tests (PVTs) and symptom validity tests (SVTs) are critically reviewed and guidelines provided for applying them across differing cognitive domains and medical, neurological, and psychiatric conditions. The book also covers validity testing in forensic settings and with particular populations, such as ethnic and linguistic minority group members. New to This Edition *Numerous new authors, a greatly expanded range of topics, and the latest data throughout. *"Clinical primer" chapter on how to select and interpret appropriate PVTs. *Chapters on methods for validity testing in visual-spatial, processing speed, and language domains and with cognitive screening instruments and personality inventories. *Chapter on methods for interpreting multiple PVTs in combination. *Chapters on additional populations (military personnel, children and adolescents) and clinical problems (dementia, somatoform/conversion disorder). *Chapters on research methods for validating PVTs, base rates of feigned mild traumatic brain injury, and more. Difficult to measure accurately and deal with effectively, organic pollutants continue to be a major hazard in the environment. Significantly expanded, the second edition of *Organic Pollutants: An Ecotoxicological Perspective* describes the mechanistic basis of ecotoxicology, using major groups of pollutants as illustrative examples, and explores th

Addresses threats to homeland security from terrorism and emergency management from natural disasters

Threats to Homeland Security, Second Edition examines the foundations of today's security environment, from broader national security perspectives to specific homeland security interests and concerns. It covers what we protect, how we

protect it, and what we protect it from. In addition, the book examines threats from both an international perspective (state vs non-state actors as well as kinds of threat capabilities—from cyber-terrorism to weapons of mass destruction) and from a national perspective (sources of domestic terrorism and future technological challenges, due to globalization and an increasingly interconnected world). This new edition of *Threats to Homeland Security* updates previous chapters and provides new chapters focusing on new threats to homeland security today, such as the growing nexus between crime and terrorism, domestic and international intelligence collection, critical infrastructure and technology, and homeland security planning and resources—as well as the need to reassess the all-hazards dimension of homeland security from a resource and management perspective. Features new chapters on homeland security intelligence, crime and domestic terrorism, critical infrastructure protection, and resource management Provides a broader context for assessing threats to homeland security from the all-hazards perspective, to include terrorism and natural disasters Examines potential targets at home and abroad Includes a comprehensive overview of U.S. policy, strategy, and technologies for preventing and countering terrorism Includes self-assessment areas, key terms, summary questions, and application exercises. On-line content includes PPT lessons for each chapter and a solutions key for academic adopters *Threats to Homeland Security, Second Edition* is an excellent introductory text on homeland security for educators, as well as a good source of training for professionals in a number of homeland security-related disciplines. It's been over a decade since the first edition of *Measurement Error in Nonlinear Models* splashed onto the scene, and research in the field has certainly not cooled in the interim. In fact, quite the opposite has

occurred. As a result, *Measurement Error in Nonlinear Models: A Modern Perspective*, Second Edition has been revamped and expanded. The second and expanded edition of a comprehensive introduction to machine learning that uses probabilistic models and inference as a unifying approach. This textbook offers a comprehensive and self-contained introduction to the field of machine learning, including deep learning, viewed through the lens of probabilistic modeling and Bayesian decision theory. This second edition has been substantially expanded and revised, incorporating many recent developments in the field. It has new chapters on linear algebra, optimization, implicit generative models, reinforcement learning, and causality; and other chapters on such topics as variational inference and graphical models have been significantly updated. The software for the book (hosted on github) is now implemented in Python rather than MATLAB, and uses state-of-the-art libraries including as scikit-learn, Tensorflow 2, and JAX. Instructor Resources: Authors' responses to the chapter and case study discussion questions; guidance on how the case studies may be used; PowerPoint slides of the exhibits to supplement classroom discussions and lectures; and suggested activities for exploring chapter topics, including data sets. As the reach and influence of technology grow, the world becomes increasingly connected. What happens in one system--finance, manufacturing, research, infrastructure, supply chain, and many more--can have a significant impact on the activities and outcomes in other systems. Healthcare is no exception. Connecting all of these systems is vital in order to properly support clinical care. Health informatics has the potential to align these interlocking systems in a way that transforms clinical decision-making and healthcare delivery to optimize overall system performance. *Health Informatics: A Systems Perspective* takes a systems approach to

leveraging information in healthcare and enhancing providers' capabilities through the use of technology and knowledge transfer. The book offers a conceptual framework for aligning clinical decision processes with system infrastructures, including information technology, organizational design, financing, and evaluation. The book's contributors--all leading academics and healthcare practitioners--balance theoretical viewpoints with practical considerations. Case studies and informative sidebars support theory with real-world applications, while learning objectives, key concepts, and discussion questions facilitate learning and reinforce content. A glossary, which defines the main concepts and key terminologies presented in the text, provides a useful overview of the material. Thoroughly updated and revised, the second edition includes three new chapters on information systems in relation to population health, global health systems, and alternative financial mechanisms and their compatibility with innovative delivery models. Additional topics include: The role of human resources and information technology in healthcare Knowledge-based decision-making Transforming clinical work processes Nursing informatics Precision medicine Data and information security An essential resource for students and practicing managers alike, *Health Informatics: A Systems Perspective* explains how information technology can enable the transformation of health organizations to improve not only the quality of healthcare, but also the health of individuals and populations. *Machine Learning: A Bayesian and Optimization Perspective*, 2nd edition, gives a unified perspective on machine learning by covering both pillars of supervised learning, namely regression and classification. The book starts with the basics, including mean square, least squares and maximum likelihood methods, ridge regression, Bayesian decision theory classification, logistic

regression, and decision trees. It then progresses to more recent techniques, covering sparse modelling methods, learning in reproducing kernel Hilbert spaces and support vector machines, Bayesian inference with a focus on the EM algorithm and its approximate inference variational versions, Monte Carlo methods, probabilistic graphical models focusing on Bayesian networks, hidden Markov models and particle filtering. Dimensionality reduction and latent variables modelling are also considered in depth. This palette of techniques concludes with an extended chapter on neural networks and deep learning architectures. The book also covers the fundamentals of statistical parameter estimation, Wiener and Kalman filtering, convexity and convex optimization, including a chapter on stochastic approximation and the gradient descent family of algorithms, presenting related online learning techniques as well as concepts and algorithmic versions for distributed optimization. Focusing on the physical reasoning behind the mathematics, without sacrificing rigor, all the various methods and techniques are explained in depth, supported by examples and problems, giving an invaluable resource to the student and researcher for understanding and applying machine learning concepts. Most of the chapters include typical case studies and computer exercises, both in MATLAB and Python. The chapters are written to be as self-contained as possible, making the text suitable for different courses: pattern recognition, statistical/adaptive signal processing, statistical/Bayesian learning, as well as courses on sparse modeling, deep learning, and probabilistic graphical models. New to this edition: Complete re-write of the chapter on Neural Networks and Deep Learning to reflect the latest advances since the 1st edition. The chapter, starting from the basic perceptron and feed-forward neural networks concepts, now presents an in depth treatment of

deep networks, including recent optimization algorithms, batch normalization, regularization techniques such as the dropout method, convolutional neural networks, recurrent neural networks, attention mechanisms, adversarial examples and training, capsule networks and generative architectures, such as restricted Boltzmann machines (RBMs), variational autoencoders and generative adversarial networks (GANs). Expanded treatment of Bayesian learning to include nonparametric Bayesian methods, with a focus on the Chinese restaurant and the Indian buffet processes. Presents the physical reasoning, mathematical modeling and algorithmic implementation of each method Updates on the latest trends, including sparsity, convex analysis and optimization, online distributed algorithms, learning in RKH spaces, Bayesian inference, graphical and hidden Markov models, particle filtering, deep learning, dictionary learning and latent variables modeling Provides case studies on a variety of topics, including protein folding prediction, optical character recognition, text authorship identification, fMRI data analysis, change point detection, hyperspectral image unmixing, target localization, and more The second edition of this compelling and popular book offers a unique global perspective on children's lives throughout the world. It shows how the notion of childhood is being radically re-shaped, in part as a consequence of globalization. Taking an engaging historical and comparative approach, the book explores social issues such as how children are constituted as raced, classed and gendered subjects; how children's involvement in war is connected to the globalization of capitalism and organized crime; and how school and work operate as sites for the governing of childhood. The book discusses wide-ranging topics including children's rights, the family, children and war, child labour and young people's

activism around the globe. In addition to updated literature throughout, the revised edition includes new chapters on migration and trafficking, and the role of play. The book will continue to be of great value to students and scholars in the fields of sociology, geography, social policy and development studies. It will also be a valuable companion to practitioners of international development and social work, as well as to anyone interested in childhood in the contemporary world. This book brings together experts from diverse scientific disciplines who share an interest in the topic of father involvement. Unlike most books in the field, which tend to solely draw from a psychological perspective, this Handbook merges theories and research from the unique fields of psychology, economics, demography sociology, anthropology, and social policy. For the most part, research on fathering is motivated by concern for children's well-being. Social scientists share a core set of questions, including: "Who are fathers?" "What is father involvement and how does it affect children and families?" "What are the determinants of father involvement?" "How do cultural contexts shape fathers' roles in families?" This Handbook sheds light on how a cross-disciplinary approach to the study of fathering can advance knowledge about these fundamental questions. This integrative approach is fundamental to a comprehensive understanding of human development generally, and to fathering more specifically. At the core of this book are the goals of describing and understanding the nature, antecedents, and consequences of father involvement across biological status, family structure, culture, and stages in children's development--both within and across scientific boundaries. Each of the scientific disciplines represented offers unique methodological and theoretical approaches to the study of fathering and to the interpretation of behavioral patterns that

characterize ecological systems that include--as well as extend beyond--family units. Together, the chapters offer provocative and challenging insight into the nature and meaning of fatherhood and father involvement by questioning longstanding assumptions about fathers' roles in the lives of families and children in current history. *Marketing: A Relationship Perspective* is back for a second edition and continues to set a benchmark for achievement in introductory marketing courses across Europe. It is a comprehensive, broad-based, and challenging basic marketing text, which describes and analyzes the basic concepts and strategic role of marketing and its practical application in managerial decision-making. It integrates the 'new' relationship approach into the traditional process of developing effective marketing plans. The book's structure fits to the marketing planning process of a company. Consequently, the book looks at the marketing management process from the perspective of both relational and transactional approach, suggesting that a company should, in any case, pursue an integrative and situational marketing management approach. Svend Hollensen's and Marc Opresnik's holistic approach covers both principles and practices, is drawn in equal measure from research and application, and is an ideal text for students, researchers, and practitioners alike. *GIS: A Computing Perspective, Second Edition*, provides a full, up-to-date overview of GIS, both Geographic Information Systems and the study of Geographic Information Science. Analyzing the subject from a computing perspective, the second edition explores conceptual and formal models needed to understand spatial information, and examines the representations and data structures needed to support adequate system performance. This volume also covers the special-purpose interfaces and architectures required to interact with and share spatial

information, and explains the importance of uncertainty and time. The material on GIS architectures and interfaces as well as spatiotemporal information systems is almost entirely new. The second edition contains substantial new information, and has been completely reformatted to improve accessibility. Changes include: A new chapter on spatial uncertainty Complete revisions of the bibliography, index, and supporting diagrams Supplemental material is offset at the top of the page, as are references and links for further study Definitions of new terms are in the margins of pages where they appear, with corresponding entries in the index Print+CourseSmart

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