

## Chapter Thirteen Springer

The Springer Handbook of Odor is the definitive guide to all aspects related to the study of smell and their impact on human life. For the first time, this handbook aligns the senso-chemo-analytical characterization of everyday smells encountered by mankind, with the elucidation of perceptual, hedonic, behavioral and physiological responses of humans to such odors. From birth onwards we learn to interact with our environment using our sense of smell. Moreover, evolutionary processes have engendered a multi-faceted communication that is supported – even dominated – by olfaction. This compilation examines the responses of humans to odors at different stages of life, thereby building a foundation for a widely overseen area of research with broader ramifications for human life. The expert international authors and editor align aspects, concepts, methodologies and perspectives from a broad range of different disciplines related to the science of smell. These include chemistry, physiology, psychology, material sciences, technology but also disciplines related to linguistics, culture, art and design. This handbook, edited by an internationally renowned aroma scientist with the support of an outstanding team of over 60 authors, is an authoritative reference for researchers in the field of odors both in academia and in industry and is also a useful reference for newcomers to the area.

You Must Be Very IntelligentThe PhD DelusionSpringer

This textbook presents an introduction to generalized linear models, complete with real-world data sets and practice problems, making it applicable for both beginning and advanced students of applied statistics. Generalized linear models (GLMs) are powerful tools in applied statistics that extend the ideas of multiple linear regression and analysis of variance to include response variables that are not normally distributed. As such, GLMs can model a wide variety of data types including counts, proportions, and binary outcomes or positive quantities. The book is designed with the student in mind, making it suitable for self-study or a structured course. Beginning with an introduction to linear regression, the book also devotes time to advanced topics not typically included in introductory textbooks. It features chapter introductions and summaries, clear examples, and many practice problems, all carefully designed to balance theory and practice. The text also provides a working knowledge of applied statistical practice through the extensive use of R, which is integrated into the text. Other features include:

- Advanced topics such as power variance functions, saddlepoint approximations, likelihood score tests, modified profile likelihood, small-dispersion asymptotics, and randomized quantile residuals
- Nearly 100 data sets in the companion R package GLMsData
- Examples that are cross-referenced to the companion data set, allowing readers to load the data and follow the analysis in their own R session

Kid's U Presents... English Springer Spaniels - Amazing Pictures and Facts About English Springer Spaniels ---- Have you ever wondered if english springer spaniels and cocker spaniels are related? Or, have you ever asked just how long this breed has been in the United States? In this book you will learn amazing things about English Springer Spaniels, finding the answers to these questions, and many more! With pictures alongside them, this book will capture the attention of even the youngest of children, and you will all start to explore the many wonders of the world. Many children learn only because they have to, but don't realize how amazing the world is, and how fun it is to learn about! The goal of this book is to change that. This book will help your children to see how vast and wonderful the world is, and inspire them with the excitement of learning. Readers will Become more aware of the various cultures around the world. Discover a multitude of amazing facts to wonder and learn more about. Find that reading can be educational, but fun! And much more! Table of Contents Introduction Chapter

## Get Free Chapter Thirteen Springer

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Professor Margaret Archer is a leading critical realist and major contemporary social theorist. This edited collection seeks to celebrate the scope and accomplishments of her work, distilling her theoretical and empirical contributions into four sections which capture the essence and trajectory of her research over almost four decades. Long fascinated with the problem of structure and agency, Archer's work has constituted a decade-long engagement with this perennial issue of social thought. However, in spite of the deep interconnections that unify her body of work, it is rarely treated as a coherent whole. This is doubtless in part due to the unforgiving rigour of her arguments and prose, but also a byproduct of sociology's ongoing compartmentalisation. This edited collection seeks to address this relative neglect by collating a selection of papers, spanning Archer's career, which collectively elucidate both the development of her thought and the value that can be found in it as a systematic whole. This book illustrates the empirical origins of her social ontology in her early work on the sociology of education, as well as foregrounding the diverse range of influences that have conditioned her intellectual trajectory: the systems theory of Walter Buckley, the neo-Weberian analysis of Lockwood, the critical realist philosophy of Roy Bhaskar and, more recently, her engagement with American pragmatism and the Italian school of relational sociology. What emerges is a series of important contributions to our understanding of the relationship between structure, culture and agency. Acting to introduce and guide readers through these contributions, this book carries the potential to inform exciting and innovative sociological research.

Genetic programming (GP) is a systematic, domain-independent method for getting computers to solve problems automatically starting from a high-level statement of what needs to be done. Using ideas from natural evolution, GP starts from an ooze of random computer programs, and progressively refines them through processes of mutation and sexual recombination, until high-fitness solutions emerge. All this without the user having to know or specify the form or structure of solutions in advance. GP has generated a plethora of human-competitive results and applications, including novel scientific discoveries and patentable inventions. This unique overview of this exciting technique is written by three of the most active scientists in GP. See [www.gp-field-guide.org.uk](http://www.gp-field-guide.org.uk) for more information on the book.

Praise for the First Edition: "The book offers rich examples of nursing projects that may broaden nursing care for greater patient and student satisfaction and assist nurses with holistic self-care." --Gale Robinson-Smith, PhD, RN Associate Professor, College of Nursing, Villanova University International Journal for Human Caring "Provides wonderful tools for nurses to use in practice, education, or even for self-care. Designed for any nurse, . . . who wishes to learn more about applying Jean Watson's Human Caring Theory to practice ... [It] is a practical, easy-to-read book for all nursing audiences and could be used at any educational level." --Doody's Medical Reviews "Sitzman and Watson's book is an invaluable resource. The strength of this book is its simplicity on one level yet its complexity as the reader works throughout the

layers incorporated within the book." --Nursing Times This seminal work, based on the philosophy of Watson's Human Caring Theory, is designed to help students and practitioners of nursing to simplify Watson's complex teachings and integrate them into everyday practice. The revised second edition includes an abundance of new micro practice examples for each Caritas process; practical exemplars from Dr. Sitzman's research, enabling readers to cultivate Caritas and mindfulness on a daily basis; and new case studies demonstrating how others have implemented Human Caring Science into everyday life and work. Drawing on the contemplative and mindfulness teachings of Thich Nhat Hanh, the text offers an engaging entry into Human Caring Theory for newcomers and deepens understanding for current practitioners. Clear and simple content supports foundational learning and promotes direct experience related to Watson's work. The book features guided mindfulness activities and artistic practices for each of the ten Caritas Processes, plus case studies and guided procedures to facilitate learning and internalizing the method. The text also serves as the foundational text for the WCSI online course that provides step-by-step instructions on how to integrate and ground the philosophy and abstracts of Human Caring Theory into practice. Additional teaching supports include Power Point slides. New to the Second Edition: New and updated content throughout Presents new examples from author's research for cultivating daily Caritas and mindfulness practices Each Caritas process chapter includes micro-practice examples from scholarly work demonstrating use of Watson's Theory Abundant case studies demonstrating how others have implemented Caring Science and Mindfulness in everyday life and work Key Features: Engages newcomers in learning Human Caring Theory and deepens understanding for current practitioners Facilitates integration of the philosophy and abstracts of Human Caring Theory into clinical practice Provides abundant case studies and guided activities to reinforce content Includes guided mindfulness and artistic practices for each of the Ten Caritas processes Designed for a diverse audience including undergraduate, graduate, and international nursing and health science students Serves as the foundational text for the companion WCSI online course (including videos)

Including all of the information necessary for safe, competent practice, this is a practical, hands-on educational and training resource for nurses working in telephonic health care settings. It delivers the requisite tools and instruction for optimizing patient communication, performing assessments, and providing effective care of chronic conditions. Moving step-by-step from simple to complex information, the resource de-mystifies the process of telephonic nursing care and describes numerous tools such as learning outcomes, algorithms, exercises to reinforce learning, case studies, and critical thinking questions that help readers develop and hone telehealth nursing skills. The text instructs nurses on how to actively listen to the patient "between the lines" in the absence of an in-person examination and discern the right questions to ask and tone to adopt. Chapters provide enhanced communication techniques to perform comprehensive health assessments with only the sense of hearing and resources available through the telephone. Clinical pearls are scattered throughout the text from those who have been "in the trenches" and cared for a wide variety of patients using the telehealth nursing techniques illustrated in this book. Key Features: Helps nurses understand the keys to successful telehealth nursing Teaches enhanced, specialized communication techniques including "active listening" Guides nurses in assessing patients using only sense of hearing/active listening Includes case studies, algorithms, patient teaching resources and more Reviews body systems and disease processes with application exercises

This atlas serves as a comprehensive working reference for a wide range of clinicians practicing in the field of clinical neurophysiology, including adult and pediatric neurologists, epileptologists, neurocritical care specialists, and electroneurodiagnostic technologists. Covering EEG, EMG, MEG, evoked potentials, sleep and autonomic studies, and ICU, critical care, and intraoperative monitoring, expert authors share examples of common and novel artifacts and highlight signature features to help practitioners recognize patterns and make accurate

distinctions. This visual compendium of information in atlas format addresses the artifact in all areas of clinical neurophysiology and highlights the traps and pitfalls that can taint studies and lead to misdiagnosis if not properly identified. Atlas of Artifacts in Clinical Neurophysiology provides full-page examples of waveforms and recordings to enhance appreciation of the nuances involved in distinguishing artifacts from neurological findings that require intervention. With the most up-to-date information available on artifacts present during procedures in both adult and pediatric patients, this book provides readers with an in-depth understanding of artifact interpretation that is essential to any clinician working in the field of clinical neurophysiology given the ubiquitous nature of artifact during electrophysiological recording. Key Features: The only dedicated reference on artifacts in all areas of clinical neurophysiologic testing Large-format examples of both common and unusual artifacts encountered in each procedure category Up-to-date text in each chapter provides greater depth of explanation Draws on the expertise and clinical wisdom of leading practitioners to develop mastery in recognizing artifacts and avoiding diagnostic pitfalls Includes access to the digital ebook and 19 videos

Have you ever wondered what heaven will be like? Join Roberts Liardon as he recounts his story along with three others who have taken the breathtaking journey to heaven and back. Let the mysteries of heaven unfold as you take an extraordinary journey to heaven and back. This essential text for any technician in broadcasting deals with all the most important digital television, sound radio and multimedia standards. The book provides an in-depth look at these subjects in terms of practical experience. In addition it contains chapters on the basics of technologies such as analog television, digital modulation, COFDM or mathematical transformations between time and frequency domains. The attention in each respective field under discussion is focused on aspects of measuring techniques and of measuring practice, in each case consolidating the knowledge imparted with numerous practical examples. Since the entire field of electrical communications technology is traversed in a wide arc, those who are students in this field are not excluded either.

"Fast Facts for the School Nurse is a comprehensive guide to school nursing. It compiles any and all information a new school nurse could possibly need, all in one easy and accessible place. This guide is, as promised, a way to quickly glean needed information about confusing and unexpected situations that may arise in the course of duty as a school nurse."--Advance for Nurses "Fast Facts for the School Nurse is a virtual compendium of situations that school nurses encounter in their practice. It will direct school nurses to the answers for many questions and to wiser counsel when a dilemma seems unsolvable. It is a reference for school nurses authored by a school nurse of publically acclaimed distinction who brings a lifetime of experience to these pages." Lucille A. Joel, RN, EdD, FAAN Rutgers, College of Nursing This concise handbook provides quick access to all of the information that new and more experienced school nurses need to perform their duties competently and efficiently. Organized for ease of use, it offers guidelines for the range of daily tasks, nursing responsibilities, and clinical protocols needed for safe management of common childhood illnesses, accidents, and emergencies. The book covers legal and ethical issues, documentation requirements, guidelines for managing acute and chronic conditions, behavior problems, gender issues, disaster planning, infectious disease control, delivery of culturally appropriate care, drug abuse, and teen parenting. A key asset for the busy school nurse is the prioritization of tasks and responsibilities. This handy reference is designed for new nurses entering the field or transitioning from a hospital setting, as well as experienced school nurses. Key Features: Presents guidelines and management protocols for commonly occurring childhood disorders, accidents, and emergency situations Prioritizes tasks and responsibilities Alerts the school nurse to high risk legal issues and includes requirements of the Individuals with Disabilities Act Includes a "Special Health Issues" section focusing on today's most prevalent health situations

This open access book is the first to systematically introduce the principles of urban informatics and its application to every aspect of the city that involves its functioning, control, management, and future planning. It introduces new models and tools being developed to understand and implement these technologies that enable cities to function more efficiently – to become ‘smart’ and ‘sustainable’. The smart city has quickly emerged as computers have become ever smaller to the point where they can be embedded into the very fabric of the city, as well as being central to new ways in which the population can communicate and act. When cities are wired in this way, they have the potential to become sentient and responsive, generating massive streams of ‘big’ data in real time as well as providing immense opportunities for extracting new forms of urban data through crowdsourcing. This book offers a comprehensive review of the methods that form the core of urban informatics from various kinds of urban remote sensing to new approaches to machine learning and statistical modelling. It provides a detailed technical introduction to the wide array of tools information scientists need to develop the key urban analytics that are fundamental to learning about the smart city, and it outlines ways in which these tools can be used to inform design and policy so that cities can become more efficient with a greater concern for environment and equity.

This book is open access under a CC BY 4.0 license. The book presents the Proceedings of the 13th International Congress on Mathematical Education (ICME-13) and is based on the presentations given at the 13th International Congress on Mathematical Education (ICME-13). ICME-13 took place from 24th- 31st July 2016 at the University of Hamburg in Hamburg (Germany). The congress was hosted by the Society of Didactics of Mathematics (Gesellschaft für Didaktik der Mathematik - GDM) and took place under the auspices of the International Commission on Mathematical Instruction (ICMI). ICME-13 brought together about 3.500 mathematics educators from 105 countries, additionally 250 teachers from German speaking countries met for specific activities. Directly before the congress activities were offered for 450 Early Career Researchers. The proceedings give a comprehensive overview on the current state-of-the-art of the discussions on mathematics education and display the breadth and deepness of current research on mathematical teaching-and-learning processes. The book introduces the major activities of ICME-13, namely articles from the four plenary lecturers and two plenary panels, articles from the five ICMI awardees, reports from six national presentations, three reports from the thematic afternoon devoted to specific features of ICME-13. Furthermore, the proceedings contain descriptions of the 54 Topic Study Groups, which formed the heart of the congress and reports from 29 Discussion Groups and 31 Workshops. The additional important activities of ICME-13, namely papers from the invited lecturers, will be presented in the second volume of the proceedings.

This is a unique and intimate insider's account of the founding and growth of a small New York science and medical publishing company over the first 57 years. Bernhard Springer, the Berlin-born great-grandson of the founder of Springer-Verlag, started his own publishing company in 1950. For the next 20 years, he slowly but surely grew his company from the ground up, demonstrating a preternatural ability to foresee areas where quality publishing was needed and answering that need. Beginning modestly with books like the Livestock Health Encyclopedia, he published his first nursing title, Handbook of Cardiology for Nurses in 1952. The company would soon branch into other fields, but nursing remained (as it remains today) Springer Publishing's signature subject, the quality and depth of which list having cemented Springer's reputation as one of the major publishers in the field. In the 1960s, Springer again recognized a nascent field in need of quality research--and became one of the first publishers to commission books extensively on the topic, again establishing an international reputation as a industry leader in that field. The company continued to build its programs in other areas, including psychology, where its publication of the controversial psychologist Silvan Tomkins's The Picture Arrangement Test established a reputation for risk-taking. Bernhard



Springer's untimely death in 1970 left the company in the hands of his wife Ursula, a teacher by trade, who went on to run the company for 34 years. Dr. Springer oversaw in that long turbulent period many changes in the publishing industry but continued to build on her husband's innovations while establishing an identity of her own as a book and journals publisher to reckon with. This book is Dr. Springer's story of the Springer Publishing Company, from its inception to its sale to Mannheim Holdings, LLC, in 2004, and beyond. Dr. Springer tells a fascinating first-hand tale of the joys and travails of starting and maintaining a small publishing business, the delicate art of courting and signing good authors (and books), and other tricks of the trade. She is particularly vivid in conveying the spirit, special character, and accomplishments of the company, which has had its share of successes and disappointments, as well as colorful personalities, among both its authors and its employees. Today, Springer Publishing Company remains a thriving concern and this book is not only enlightening reading to anyone interested in publishing, business history, or Springer Publishing, but also serves as a fitting tribute to two people of unusual vision and intrepidity.

One of the ongoing problems researchers in geography and GIS have is studying data that is inherently spatial over a long period of time. One of the main hurdles they have to overcome is the study of groups of people classified by their socio-economic status (one of the main means for governments, companies and research organisations to group together segments of the population). The amount of data collected by governments, business and research organisations has increased markedly in recent years. Geographic Information Systems have been more widely used than ever before for the storage and analysis of this information. Most GIS can handle this information spatially rather than temporally, and have difficulty with the management of socio-economic time series, which relate to spatial units. Accordingly, this book covers the issues ranging from the formal model to differentiate aspects of spatio-temporal data, through philosophical and fundamental reconsideration of time and space to the development of practical solutions to the problem. This book draws together an interdisciplinary group of scientists in the field of geography, computing, surveying and philosophy. It presents the definitive sourcebook on temporal GIS as applied to socio-economic units.

You Must be Very Intelligent is the author's account of studying for a PhD in a modern, successful university. Part-memoir and part-exposé, this book is highly entertaining and unusually revealing about the dubious morality and desperate behaviour which underpins competition in twenty-first century academia. This witty, warts-and-all account of Bodewits' years as a PhD student in the august University of Edinburgh is full of success and failure, passion and pathos, insight, farce and warm-hearted disillusionment. She describes a world of collaboration and backstabbing; nefarious financing and wasted genius; cosmopolitan dreamers and discoveries that might just change the world... Is this a smart people's world or a drip can of weird species? Modern academia is certainly darker and stranger than one might suspect... This book will put a wry, knowing smile on the faces of former researchers. And it is a cautionary parable for innocents who still believe that lofty academia is erected upon moral high ground... Praise for the First Edition: "This wonderful and informative resource provides a definitive base of information for those engaged in clinical inquiry. It not only presents the information in a systematic format, it also provides specific examples of projects that have been completed by advanced practice nurses." Score 100, 5 Stars -Doody's Medical Reviews This one-of-a-kind resource is specifically designed to guide DNP students in the essentials of conducting practice-based studies. It demystifies the process by

helping students to identify the methodology that best fits their project idea, envision the key elements of the project, design, set up, and run the project, and write up and disseminate the project outcome. In addition to being substantially updated throughout, the second edition includes four new chapters and reflects current literature, with updated references and suggested readings. Additionally, each chapter concludes with a Discussion Guide to assist faculty in pinpointing key points within the chapter. The only book to address the complexities of clinical inquiry from a practice perspective rather than research perspective. The book builds on basic research concepts that, combined with the knowledge and experience gained by the APRN student, facilitate an in-depth understanding of how clinical research differs from traditional quantitative research. Packed with practical steps and tools, the book fosters the development of such skills as finding data, and reading, critiquing, and translating research to support evidenced-based practice within the health care system, either with a specific population, or for policy development. The text is based on the Scholarship of Integration and Application, one of the core DNP competencies, and is organized to build from simple to greater complexity. Each chapter features learning objectives, learning activities, and review questions. New to the Second Edition: Substantially updates all chapters Includes four new chapters: The DNP Project, Finding and Critiquing the Best Evidence, Descriptive Projects, and Disseminating Results New content reflects current literature Offers updated references and suggested readings Chapters conclude with a Discussion Guide to aid faculty and students to identify and explore key points Key Features: Delivers clear, essential guidance for clinical inquiry and research used to demonstrate practice outcomes Written by an esteemed educator highly experienced in teaching clinical inquiry Illustrates the application of “Scholarship of Integration and Application” , a core competency for the DNP Guides readers in DNP student program/project design and evaluation Presents content systematically from simple to complex

Note to Readers: Publisher does not guarantee quality or access to any included digital components if book is purchased through a third-party seller. The Health Services Executive (HSETM): Tools for Leading Long-Term Care and Senior Living Organizations serves as a contemporary and comprehensive resource that addresses each of the core professional domains of practice and leadership essentials for long-term care administration students and professionals. With sections dedicated to postacute care settings, operations, leadership and management, this textbook covers information pertinent to the spectrum of senior living service lines – from inpatient rehab facilities, long-term acute care hospitals, nursing homes, assisted living, and residential care communities to home- and community-based services. It is a practical reference for both undergraduate and graduate students preparing to enter the field of long-term care administration and leadership, as well as for professionals transitioning to another line of postacute service. The textbook begins with a thorough history of the field, including the development of senior services in the United States. Section I then describes the components of customer care, supports, and services before transitioning into Section II, which addresses operations, including the core practice domains of effectively managing human resources, finances, and the environment. Section III offers a framework for leadership, covering strategic thinking and innovation, marketing and public relations, critical thinking and operation practice, customer service, and personal development. Case problems, discussion

questions, leadership roles, high-impact practices, key points, and National Association of Long Term Care Administrator Boards (NAB) domain competencies conclude each chapter. Written by two highly experienced long-term care administrators, this textbook is intended for those preparing for the examinations administered by the NAB for the HSETM qualification or licensure for individual lines of service, such as for Nursing Home Administration (NHA), Residential Care and Assisted Living (RC/AL) and Home- and Community-Based Services (HCBS). Key Features: Provides best practices for leadership and management across the continuum of long-term care and senior living services Covers all five NAB professional practice domains: Customer Care, Supports and Services; Human Resources; Finance; Environment; and Leadership and Management Includes case problems, discussion questions, and more to foster critical thinking and decision-making skills Offers coverage of the most unique differences among service lines that are part of the HSETM initiative Weaves insightful quotes from industry leaders throughout chapters for practical tips and words of wisdom

This book is an introductory text on design science, intended to support both graduate students and researchers in structuring, undertaking and presenting design science work. It builds on established design science methods as well as recent work on presenting design science studies and ethical principles for design science, and also offers novel instruments for visualizing the results, both in the form of process diagrams and through a canvas format. While the book does not presume any prior knowledge of design science, it provides readers with a thorough understanding of the subject and enables them to delve into much deeper detail, thanks to extensive sections on further reading. Design science in information systems and technology aims to create novel artifacts in the form of models, methods, and systems that support people in developing, using and maintaining IT solutions. This work focuses on design science as applied to information systems and technology, but it also includes examples from, and perspectives of, other fields of human practice. Chapter 1 provides an overview of design science and outlines its ties with empirical research. Chapter 2 discusses the various types and forms of knowledge that can be used and produced by design science research, while Chapter 3 presents a brief overview of common empirical research strategies and methods. Chapter 4 introduces a methodological framework for supporting researchers in doing design science research as well as in presenting their results. This framework includes five core activities, which are described in detail in Chapters 5 to 9. Chapter 10 discusses how to communicate design science results, while Chapter 11 compares the proposed methodological framework with methods for systems development and shows how they can be combined. Chapter 12 discusses how design science relates to research paradigms, in particular to positivism and interpretivism. Lastly, Chapter 13 discusses ethical issues and principles for design science research.

This comprehensive text thoroughly reviews the theories and history of racism, the sociology of and the psychology of racism, intergroup relations and intergroup conflict, and how racism is manifested institutionally, between groups, and between people, providing a unique view of the connections between these multiple perspectives. Readers can then apply this knowledge to their work as helping professionals. Students learn to explore their own biases and how they influence their view of themselves and



others, which strengthens their work with future clients. Fulfilling NASW and CSWE cultural competency requirements, this book teaches socially just practices to helping professionals from any discipline. Many people want to dismantle racism but they do not know how. This book gets us closer to that goal. Using critical race theory as a conceptual framework, the text analyzes all levels of racism: personal, professional, institutional, and cultural. Integrating theory, research, and practice, racism is linked to other forms of oppression with an emphasis on how helping professionals can respond. Tips on how to facilitate racial dialogues are provided. Early chapters map out the contours of racism and later chapters emphasize how to dismantle it. Readers appreciate the book's sensitive approach to this difficult topic. Examples and exercises encourage insight into understanding racism, and insightful analyses offer strategies, solutions, and hope. Readers learn to respond to racism in all contexts including working with individuals, families, groups, organizations, and communities. **NEW TO THE SECOND EDITION:** Reflects recent sociopolitical changes including "Islamophobia" the Obama presidency, the murders of young men of color by police, the racialization of the criminal justice system, and current immigration issues. More cases and experiential exercises help readers explore how racism is manifested and how to incorporate the lessons learned into future working environments. More emphasis on the intersectionality of racism and other social oppressions including class, gender, sexual orientation, citizenship, immigration experiences, and disability to give readers a better understanding of the relationship between these issues. PowerPoints and Instructor's resources with sample syllabi, teaching tips, and suggested videos and related websites. An ideal text for advanced courses on racism, oppression, diversity, prejudice and discrimination, or racism and professional practice, this book also appeals to helping professionals (social workers, psychologists, counselors, and nurses) who need to understand racism to better serve their clients. *Progress in Theoretical Biology, Volume 2*, brings together the significant and timely theoretical developments in particular areas of biology in a critical and synthetic manner. It is concerned with a field which has emerged as an identifiable subdiscipline of the biological sciences. This emergence and recognition signify that biological science has evolved from its initial stage of description and classification into the adolescence of transformation to the quantitative. The book's opening chapter develops a theory that uses a new generalization of statistical mechanics to provide a basis for understanding how the microscopic behavior of nonliving parts can generate the macroscopic appearance of a living aggregate. The subsequent chapters discuss theoretical methods in systematic and evolutionary studies; the theory of neural masses; the design of chemical reaction systems; cooperative processes in biological systems; and the organization of motor systems. This book is intended for the modern biological scientist as well as for the physical scientist who is inquisitive of the ways of the most complex of all processes.

*An Introduction to Statistical Learning* provides an accessible overview of the field of statistical learning, an essential toolset for making sense of the vast and complex data sets that have emerged in fields ranging from biology to finance to marketing to astrophysics in the past twenty years. This book presents some of the most important modeling and prediction techniques, along with relevant applications. Topics include linear regression, classification, resampling methods, shrinkage approaches, tree-based methods, support vector machines, clustering, and more. Color graphics and real-world examples are used to illustrate the

methods presented. Since the goal of this textbook is to facilitate the use of these statistical learning techniques by practitioners in science, industry, and other fields, each chapter contains a tutorial on implementing the analyses and methods presented in R, an extremely popular open source statistical software platform. Two of the authors co-wrote *The Elements of Statistical Learning* (Hastie, Tibshirani and Friedman, 2nd edition 2009), a popular reference book for statistics and machine learning researchers. An *Introduction to Statistical Learning* covers many of the same topics, but at a level accessible to a much broader audience. This book is targeted at statisticians and non-statisticians alike who wish to use cutting-edge statistical learning techniques to analyze their data. The text assumes only a previous course in linear regression and no knowledge of matrix algebra.

Part of the excitement in boundary-layer meteorology is the challenge associated with turbulent flow - one of the unsolved problems in classical physics. An additional attraction of the field is the rich diversity of topics and research methods that are collected under the umbrella-term of boundary-layer meteorology. The flavor of the challenges and the excitement associated with the study of the atmospheric boundary layer are captured in this textbook. Fundamental concepts and mathematics are presented prior to their use, physical interpretations of the terms in equations are given, sample data are shown, examples are solved, and exercises are included. The work should also be considered as a major reference and as a review of the literature, since it includes tables of parameterizations, procedures, field experiments, useful constants, and graphs of various phenomena under a variety of conditions. It is assumed that the work will be used at the beginning graduate level for students with an undergraduate background in meteorology, but the author envisions, and has catered for, a heterogeneity in the background and experience of his readers.

This is the first truly foundational, introductory text designed to help novice practitioners master the fundamentals of musculoskeletal ultrasound. For the new practitioner who has yet to hold a transducer, Dr. Strakowski makes beginning easy and presents detailed step-by-step instructions for operating the equipment, obtaining good images, and successfully interpreting sonograms. Organized for maximum learning value, the book is packed with high-quality color images, tables, and tips to enhance understanding of proper technique and proficiency in musculoskeletal ultrasound. The book's clear, concise presentation will help new practitioners, residents, and medical students take the first steps in using ultrasound in the musculoskeletal clinic with confidence and skill.

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.

Aspen-- the American Riviera-- where the rich and the beautiful go to play. Quiet streets, breathtaking mountains, and one of the lowest crime rates in America. But that's about to change. Real estate speculator Max Shapiro has been cleaning the San Francisco mob's money for three decades. Then the hammer drops-- he's dying of cancer and is on borrowed time. Resentful of the mob's hold and not wishing to die with an IV hose in his arm, Max tells the mob he isn't paying any more tribute, hoping they'll send someone to kill him. While vacationing in Aspen, however, Max gets a call from his doctor. Good news. Max isn't dying after all. But it's too late to call off the mob's killers. Max's only hope is the enigmatic Cole Springer-- an ex-Secret Service agent with a penchant for creative thinking-- broke and in danger of losing his Aspen nightclub. Shapiro needs a bodyguard and Springer needs money, so they cut a protection deal. Enter Gerry "Knucks" Nugent, a cerebral and deadly hit man in the midst of a midlife crisis who has been sent to kill Shapiro. A mob boss dies in 'Frisco, there is a struggle for power, and an emergency cache of three million dollars ends up in the hands of Nicky Tortino, a merciless Bay Area crime lord. The shift in the underworld command sends shock waves rippling across the western United States, affecting even Shapiro and Nugent. Meanwhile, Springer's active mind runs to larger themes than merely protecting Shapiro, and he begins to formulate a scheme to save Shapiro and get his hands on the three million. Springer's scam depends upon recruiting Nugent, and Nugent is widely feared-- even by his ruthless bosses on the West Coast. Bay Area underboss Nicky Tortino travels to Aspen to get Shapiro to launder the three million, and also to have both Springer and Shapiro killed. The law closes in and Springer is running out of time and options. Beset on all sides, Springer designs an elaborate sting to extricate Shapiro and himself from the deadly web that has formed around them. But can he trust Nugent?

This book provides comprehensive coverage of the field of outlier analysis from a computer science point of view. It integrates methods from data mining, machine learning, and statistics within the computational framework and therefore appeals to multiple communities. The chapters of this book can be organized into three categories: Basic algorithms: Chapters 1 through 7 discuss the fundamental algorithms for outlier analysis, including probabilistic and statistical methods, linear methods, proximity-based methods, high-dimensional (subspace) methods, ensemble methods, and supervised methods. Domain-specific methods: Chapters 8 through 12 discuss outlier detection algorithms for various domains of data, such as text, categorical data, time-series data, discrete sequence data, spatial data, and network data. Applications: Chapter 13 is devoted to various applications of outlier analysis. Some guidance is also provided for the practitioner. The second edition of this book is more detailed and is written to appeal to both researchers and practitioners. Significant new material has been added on topics such as kernel methods, one-class support-vector machines, matrix factorization, neural networks, outlier ensembles, time-series methods, and subspace

methods. It is written as a textbook and can be used for classroom teaching.

Modeling and Simulation of Computer Networks and Systems: Methodologies and Applications introduces you to a broad array of modeling and simulation issues related to computer networks and systems. It focuses on the theories, tools, applications and uses of modeling and simulation in order to effectively optimize networks. It describes methodologies for modeling and simulation of new generations of wireless and mobiles networks and cloud and grid computing systems. Drawing upon years of practical experience and using numerous examples and illustrative applications recognized experts in both academia and industry, discuss: Important and emerging topics in computer networks and systems including but not limited to; modeling, simulation, analysis and security of wireless and mobiles networks especially as they relate to next generation wireless networks Methodologies, strategies and tools, and strategies needed to build computer networks and systems modeling and simulation from the bottom up Different network performance metrics including, mobility, congestion, quality of service, security and more... Modeling and Simulation of Computer Networks and Systems is a must have resource for network architects, engineers and researchers who want to gain insight into optimizing network performance through the use of modeling and simulation. Discusses important and emerging topics in computer networks and Systems including but not limited to; modeling, simulation, analysis and security of wireless and mobiles networks especially as they relate to next generation wireless networks Provides the necessary methodologies, strategies and tools needed to build computer networks and systems modeling and simulation from the bottom up Includes comprehensive review and evaluation of simulation tools and methodologies and different network performance metrics including mobility, congestion, quality of service, security and more

The book focuses on smart computing for crowdfunding usage, looking at the crowdfunding landscape, e.g., reward-, donation-, equity-, P2P-based and the crowdfunding ecosystem, e.g., regulator, asker, backer, investor, and operator. The increased complexity of fund raising scenario, driven by the broad economic environment as well as the need for using alternative funding sources, has sparked research in smart computing techniques. Covering a wide range of detailed topics, the authors of this book offer an outstanding overview of the current state of the art; providing deep insights into smart computing methods, tools, and their applications in crowdfunding; exploring the importance of smart analysis, prediction, and decision-making within the fintech industry. This book is intended to be an authoritative and valuable resource for professional practitioners and researchers alike, as well as finance engineering, and computer science students who are interested in crowdfunding and other emerging fintech topics. This twenty-third ICMI Study addresses for the first time mathematics teaching and learning in the primary school (and pre-school) setting, while also taking international perspectives, socio-cultural diversity and institutional constraints into account. One of the main challenges of designing the first ICMI primary school study of this kind is the complex nature of mathematics at the early level. Accordingly, a focus area that is central to the discussion was chosen, together with a number of related questions. The broad area of Whole Number Arithmetic (WNA), including operations and relations and arithmetic word problems, forms the core content of all primary mathematics curricula. The study of this core content area is often regarded as foundational for later

mathematics learning. However, the principles and main goals of instruction on the foundational concepts and skills in WNA are far from universally agreed upon, and practice varies substantially from country to country. As such, this study presents a meta-level analysis and synthesis of what is currently known about WNA, providing a useful base from which to gauge gaps and shortcomings, as well as an opportunity to learn from the practices of different countries and contexts.

2009 AJN Book of the Year Award Winner! Designated a Doody's Core Title! Middle Range Theory for Nursing is a textbook designed for theory and research courses in master's and doctoral programs. As described in the 2d edition of the Encyclopedia of Nursing Research, middle range theory "is a basic, usable structure of ideas, less abstract than grand theory and more abstract than empirical generalizations or micro-range theory . Middle-range theories are developed and grown at the intersection of practice and research to provide guidance for everyday practice and scholarly research rooted in the discipline of nursing." In this revised and updated second edition, the authors will revise the eight theories that were examined in the first edition with published research and practice updates along with any changes in the basic concepts and models. Seven new theories will be added. Each theory is presented by the theorist in a consistent format: purpose of the theory; basic concepts; relationships among the concepts, the model; use of the theory in nursing research and/or practice; conclusions; references. Theories new to the second edition Symptom Management (Dodd et al.) Caring (Swanson) Embodied Language (Liehr et al.) Cultural Self-reliance (Lowe) Caregiver Stress (Tsai) Clinical Decision Making (Chase) Moral Reckoning (Nathaniel)

NAMED A DOODY'S CORE TITLE! Designed as both a text for the DNP curriculum and a practical resource for seasoned health professionals, this acclaimed book demonstrates the importance of using an interprofessional approach to translating evidence into nursing and healthcare practice in both clinical and nonclinical environments. This third edition reflects the continuing evolution of translation frameworks by expanding the Methods and Process for Translation section and providing updated exemplars illustrating actual translation work in population health, specialty practice, and the healthcare delivery system. It incorporates important new information about legal and ethical issues, the institutional review process for quality improvement and research, and teamwork and building teams for translation. In addition, an unfolding case study on translation is threaded throughout the text. Reorganized for greater ease of use, the third edition continues to deliver applicable theory and practical strategies to lead translation efforts and meet DNP core competency requirements. It features a variety of relevant change-management theories and presents strategies for improving healthcare outcomes and quality and safety. It also addresses the use of evidence to improve nursing education, discusses how to reduce the divide between researchers and policy makers, and describes the interprofessional collaboration imperative for our complex healthcare environment. Consistently woven throughout are themes of integration and application of knowledge into practice. NEW TO THE THIRD EDITION: Expands the Methods and Process for Translation section Provides updated exemplars illustrating translation work in population health, specialty practice, and the healthcare delivery system Offers a new, more user-friendly format Includes an entire new section, Enablers of Translation Delivers expanded information on legal and ethical issues Presents new chapter, Ethical Responsibilities of Translation of



Evidence and Evaluation of Outcomes Weaves an unfolding case study on translation throughout the text  
KEY FEATURES:  
Delivers applicable theories and strategies that meet DNP core requirements  
Presents a variety of relevant change-management theories  
Offers strategies for improving outcomes and quality and safety  
Addresses the use of evidence to improve nursing education  
Discusses how to reduce the divide between researchers and policy makers  
Supplies extensive lists of references, web links, and other resources to enhance learning  
Purchase includes digital access for use on most mobile devices or computers  
Print+CourseSmart

On Prison Planetoid Three, Jaguar Addams and Alex Dzarny use their telepathic gifts to make the worst criminals face the fears that drive their heinous crimes. But now they face a criminal unlike any they'd met before. Springer Todd, rock star, turned a gun on his audience, and won't say why. When Alex learns who Springer really is, he realizes he's caught in a tangled web of deceit he can't even tell Jaguar about. And she must figure out how to save both Alex and Springer from their own best and worst impulses, as they both try to hear the truth beneath the lies.

Epidemiology of Endocrine Tumors brings current data and clinical research into one source for a multidisciplinary audience. The book discusses the prevalence, incidence, etiology, pathology, diagnosis and treatment of various endocrine tumors. With clear and focused writing, it is essential reading for healthcare professionals, endocrinologists, oncologists, and public health professionals. Users will be able to bridge the knowledge gap that exists in the comprehensive coverage surrounding the epidemiology of endocrine tumors. Globally, the prevalence and incidence of endocrine tumors is high. This audience needs a treatise where they can gain a broad overview of endocrine tumors with a focus on epidemiology. Supplies information about the epidemiology of various endocrine tumors, both benign and malignant, to endocrinologists, oncologists and related health care professionals  
Focuses on the impact upon costs and patient deaths due to complications of these tumors  
Describes how endocrine tumors affect various age groups and ethnicities, discussing the prevention of endocrine tumors  
Presents chapters on Cancer Problem, Specific Endocrine Tumors, Prevention, Detection and Diagnosis, and Treatment of Endocrine Tumors  
Provides review questions with an answer key and detailed glossary

This is a comprehensive guide to the basics of Mindful Hypnotherapy (MH), a new modality that delivers a mindfulness-based intervention within a hypnotic context. The book encompasses everything a clinician needs to know to fully understand and apply the approach in clinical practice. The result of a collaboration between a leader in the field of hypnosis and a mindfulness meditation expert, the book elucidates step-by-step clinical strategies and provides verbatim transcripts that professionals can put to use immediately. The resource first introduces the foundations of mindful hypnotherapy, supported by research evidence. Using a session-by-session approach, it describes how to structure sessions, evaluate a patient's hypnotic ability, deal with resistance, and create individualized clinical applications. Key Features: Embodies an innovation collaboration between a leader in hypnosis and a mindfulness expert  
Delivers verbatim transcripts of mindful hypnotherapy for immediate use  
Provides guidance on structuring sessions, setting goals, assessing hypnotic ability, dealing with resistance, and creating individualized treatment

Guides the clinician in addressing specific psychological issues such as stress, anxiety, and well-being  
A Mindful Self-Hypnosis Daily Practice Log enables therapists to track progress  
Abundant case examples illuminate the process of mindful hypnotherapy and present real-life treatment interventions for a range of problems  
Includes guidelines for formulation of hypnotic suggestions and therapeutic metaphors related to mindfulness  
Provides an overview of training and personal growth as a mindful hypnotherapist

The Country Frank Springer rode into in 1873 was one of immense beauty and abundant resources--grass and timber, wild game, precious metals, and a vast bed of commercial-grade coal. It was also a stage upon which dramatic and sometimes violent events played out during Springer's ten-year residence in Cimarron, New Mexico. A lawyer and newspaperman for the Maxwell Land Grant company and a foe of the speculators known as "the Santa Fe Ring." Springer found himself in the middle of the Colfax Country War. A man of many sides, he typified the Gilded Age entrepreneurs who transformed the territorial American Southwest. He was also an intriguing personality--an introvert who engaged in very public activities, speaking to large audiences and leading in major civic endeavors. As president of the Maxwell Land Grant company, he also led in the development of mining, logging, ranching, and irrigation enterprises. His Supreme Court victory establishing title to the 1.7 million acre Maxwell grant earned him a reputation as a brilliant attorney. He also helped lay the foundations of New Mexico Highlands University, the Museum of New Mexico, and other cultural institutions. Throughout his adult life, Springer also engaged in palcontological study, publishing his findings through the Smithsonian Institution and other leading scientific publishers. He amassed the largest collection in the world of a certain kind to fossil, a collection he donated to the Smithsonian Institution, where it is still housed. Frank Springer's influence on New Mexico's economic development was far-reaching and lasting. A thorough biography of the energetic Springer, this book offers insight into many colorful episodes in theregion's history and the way a certain breed of Anglo-centric men left their stamp on the land and its people.

Suicide is an event that cannot be ignored, minimized, or left untreated. However, all too often mental health professionals and health care practitioners are unprepared to treat suicidal clients. This text offers the latest guidance to frontline professionals who will likely encounter such clients throughout their careers, and to educators teaching future clinicians. The book discusses how to react when clients reveal suicidal thoughts; the components of comprehensive suicide assessments; evidence-based treatments such as crisis intervention, cognitive behavior therapy, dialectical behavior therapy, and more; and ethical and legal issues that may arise. Case studies, exercises, quizzes, and other features make this a must-have reference for graduate level courses. Key topics: Risk and identification of suicidal behaviors across the lifespan (children, adolescents, adults, and the elderly) The links between suicidality and mental illness (psychotic disorders, mood disorders, and substance abuse) Suicide risk among special populations (military personnel, LGBTQ individuals, the homeless, and more) A model for crisis intervention with suicidal individuals

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