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This title takes a comprehensive approach, exploring the physical, social, psychological, and spiritual dimensions of death, dying, and bereavement. Through personal stories from real people, Death, Dying, and Bereavement provides readers with a context for understanding their changing encounters with such difficult concepts. This book examines the encounter between western and Asian models of public health and medicine in a range of East and Southeast Asian countries over the course of the twentieth century until now. It discusses the transfer of scientific knowledge of medicine and public health approaches from Europe and the United States to several Asian countries — Singapore, Hong Kong, Indonesia, Sri Lanka, Japan, Taiwan, and China — and local interactions with, and transformations of, these public health models and approaches from the nineteenth century to the 1950s. Taking a critical look at assumptions about the objectiveness of science, the book highlights the use of scientific knowledge for political control, cultural manipulation, social transformation and economic needs. It rigorously and systematically investigates the historical developments of public health concepts, policies, institutions, and how these practices changed from colonial, to post-colonial and into the present day. Biostatistics for the Biological and Health Sciences is the result of collaboration between the author of the #1 statistics book in the country and an expert in the biological sciences field. The major objective of this book is to provide a thorough, yet engaging introduction to statistics for students and professors in the biological, life, and health sciences. This text reflects the important features of a modern introductory statistics course and includes an abundance of real data and biological applications, and a variety of pedagogical components to help students succeed in their study of biological statistics. MARKET: It is the ideal introduction to statistics for students and professors in the biological, life, and health sciences. Across early modern Europe, men and women from all ranks gathered medical, culinary, and food preservation recipes from family and friends, experts and practitioners, and a wide array of printed materials. Recipes were tested, assessed, and modified by teams of householders, including masters and servants, husbands and wives, mothers and daughters,

and fathers and sons. This much-sought know-how was written into notebooks of various shapes and sizes forming “treasuries for health,” each personalized to suit the whims and needs of individual communities. In *Recipes and Everyday Knowledge*, Elaine Leong situates recipe knowledge and practices among larger questions of gender and cultural history, the history of the printed word, and the history of science, medicine, and technology. The production of recipes and recipe books, she argues, were at the heart of quotidian investigations of the natural world or “household science”. She shows how English homes acted as vibrant spaces for knowledge making and transmission, and explores how recipe trials allowed householders to gain deeper understandings of sickness and health, of the human body, and of natural and human-built processes. By recovering this story, Leong extends the parameters of natural inquiry and productively widens the cast of historical characters participating in and contributing to early modern science.

Introduction to Health Science: Pathways to Your Future is a pathway-focused textbook program that helps you explore and prepare for healthcare careers. Organized into units based on the five health science pathways, the text covers all the skills and knowledge areas included in the National Health Science Standards. Assessment activities at the end of each chapter offer multiple opportunities for students to simulate healthcare careers, practice skills, and to think deeply about the information they've learned. The thoroughly revised and updated Third Edition of the acclaimed *Modern Epidemiology* reflects both the conceptual development of this evolving science and the increasingly focal role that epidemiology plays in dealing with public health and medical problems. Coauthored by three leading epidemiologists, with sixteen additional contributors, this Third Edition is the most comprehensive and cohesive text on the principles and methods of epidemiologic research. The book covers a broad range of concepts and methods, such as basic measures of disease frequency and associations, study design, field methods, threats to validity, and assessing precision. It also covers advanced topics in data analysis such as Bayesian analysis, bias analysis, and hierarchical regression. Chapters examine specific areas of research such as disease surveillance, ecologic studies, social epidemiology, infectious disease epidemiology, genetic and molecular epidemiology, nutritional epidemiology, environmental epidemiology, reproductive epidemiology, and clinical epidemiology. This book examines the health/fitness interaction in an historical context. Beginning in primitive hunter-gatherer communities, where survival required adequate physical activity, it goes on to consider changes in health and physical activity at subsequent stages in the evolution of “civilization.” It focuses on the health impacts of a growing understanding of medicine and physiology, and the emergence of a middle-class with the time and money to choose between active and passive leisure pursuits. The book reflects on urbanization and industrialization in relation to the need for public health measures, and the ever-diminishing physical demands of the workplace. It then evaluates the attitudes of prelates, politicians, philosophers and teachers at each stage of the process. Finally, the book explores professional and governmental initiatives to increase public involvement in active leisure through various school, worksite, recreational and sports programmes.

Inspired by the *Encyclopedia of Statistical Sciences, Second Edition*, this volume outlines the statistical tools for successfully working with modern life and health sciences research. Data collection holds an essential part in dictating the future of health sciences and public health, as the compilation of statistics allows researchers and medical practitioners to monitor trends in health status, identify health problems, and evaluate the impact of health policies and programs. *Methods and Applications of Statistics in the Life and Health Sciences* serves as a single, one-of-a-kind resource on the wide range of statistical methods, techniques, and applications that are applied in modern life and health sciences in research. Specially designed to present encyclopedic content in an accessible and self-contained format, this book outlines thorough coverage of the underlying theory and standard applications to research in related disciplines such as biology, epidemiology, clinical trials, and public health. Uniquely combining established literature with cutting-edge research, this book contains classical works and more than twenty-five new articles and completely revised contributions from the acclaimed *Encyclopedia of Statistical Sciences, Second Edition*. The result is a compilation of more than eighty articles that explore classic methodology and new topics, including: Sequential methods in biomedical

research Statistical measures of human quality of life Change-point methods in genetics Sample size determination for clinical trials Mixed-effects regression models for predicting pre-clinical disease Probabilistic and statistical models for conception Statistical methods are explored and applied to population growth, disease detection and treatment, genetic and genomic research, drug development, clinical trials, screening and prevention, and the assessment of rehabilitation, recovery, and quality of life. These topics are explored in contributions written by more than 100 leading academics, researchers, and practitioners who utilize various statistical practices, such as election bias, survival analysis, missing data techniques, and cluster analysis for handling the wide array of modern issues in the life and health sciences. With its combination of traditional methodology and newly developed research, *Methods and Applications of Statistics in the Life and Health Sciences* has everything students, academics, and researchers in the life and health sciences need to build and apply their knowledge of statistical methods and applications. Chapters cover energy and specific dietary components. The role of nutrition in relation to integrated biologic systems is reviewed. Methods of nutritional assessment are discussed as are dietary and nutritional interrelations with diseases. Historically, the amino acid tryptophan has been considered to play a role in cancer development and the aging process. In recent times, this nutrient has been associated with eosinophila myalgia syndrome - a new human disease that attacks the muscular system. This detailed book examines the implications of the large measure of fresh information ga American eating changed dramatically in the early twentieth century. As food production became more industrialized, nutritionists, home economists, and so-called racial scientists were all pointing Americans toward a newly scientific approach to diet. Food faddists were rewriting the most basic rules surrounding eating, while reformers were working to reshape the diets of immigrants and the poor. And by the time of World War I, the country's first international aid program was bringing moral advice about food conservation into kitchens around the country. In *Modern Food, Moral Food*, Helen Zoe Veit argues that the twentieth-century food revolution was fueled by a powerful conviction that Americans had a moral obligation to use self-discipline and reason, rather than taste and tradition, in choosing what to eat. Veit weaves together cultural history and the history of science to bring readers into the strange and complex world of the American Progressive Era. The era's emphasis on science and self-control left a profound mark on American eating, one that remains today in everything from the ubiquity of science-based dietary advice to the tenacious idealization of thinness. *The Medical World of Early Modern France* recounts the history of medicine in France between the sixteenth century and the French Revolution. Physicians, surgeons and apothecaries are centre-stage, and the study provides an overview of long-term changes in their ideas about medicine and their craft. Other denizens of the medical world - quacks, charlatans, wise women, midwives, herbalist and others - are also brought into the analysis, which is set within the broader context of social, economic, demographic and cultural change. The breadth of the chronological and analytical framework, and the depth of the archival research behind it, makes this a unique account of the evolution of medical ideas and practices in one of the major countries of early modern Europe. The medical applications of physics are not typically covered in introductory physics courses. *Introduction to Physics in Modern Medicine* fills that gap by explaining the physical principles behind technologies such as surgical lasers or computed tomography (CT or CAT) scanners. Each chapter includes a short explanation of the scientific background, making this book highly accessible to those without an advanced knowledge of physics. It is intended for medicine and health studies students who need an elementary background in physics, but it also serves well as a non-mathematical introduction to applied physics for undergraduate students in physics, engineering, and other disciplines. In the late Nineteenth-century, the Japanese embarked on a program of westernization in the hope of building a strong and modern nation. Science, technology and medicine played an important part, showing European nations that Japan was a world power worthy of respect. It has been acknowledged that state policy was important in the development of industries but how well-organized was the state and how close were government-business relations? The book seeks to answer these questions and others. The first part deals with the role of science and medicine in creating a healthy

nation. The second part of the book is devoted to examining the role of technology, and business-state relations in building a modern nation. In today's world of clever blogs, miniscule tweets, and Facebook posts, millions of people are searching for deeper meaning. The ideas in 21st Century Science and Health offer practical ways to tap into and harness the power of universal truths to achieve your personal, career, and spiritual goals. This is a step beyond simply developing complicated coping skills. You can learn the techniques and tools of the world's most influential people to overcome confusion, pain, depression, stress, and the like. Even better, 21st Century Science Health doesn't dictate how you should think or act. Instead, it gives you scientific, spiritual, and internal evidence from which you can draw your own conclusions with God, and help you become a happier, healthier and more fulfilled person able to make instrumental change for the better. This book aims to comprehensively address several modern concepts and practices in health care marketing not sufficiently addressed by existing literature. This includes the integrated nature of health care marketing, operations management, IT and human resource management; increased use of digital technology and social media; emphasis on enhancing customer-patient experience when strategizing and implementing health care marketing; application of modern services marketing concepts to health care marketing mix, among others. It also addresses recent changes in the U.S. health care industry. Some key issues covered are the increase in federal and state government involvement and oversight of health care delivery; increase in laws and regulations affecting health care management and marketing; growth of specialized health care markets such as Medicare, Medicaid and Affordable Care Act; globalization of health care and greater focus on legal and ethical health care marketing practices. Modern Health Care Marketing is an essential read to understand the integrated nature of health care marketing in the technologically driven, customer/patient-focused and globalized environment. It is also a useful reference for professionals to pick up best practices on addressing challenges faced in the modern health care industry.

Mixed Methods in Health Sciences Research: A Practical Primer, by Leslie Curry and Marcella Nunez-Smith, presents key theories, concepts, and approaches in an accessible way. Packed with illustrations from the health sciences literature, this ready-to-use guidebook shows readers how to design, conduct, review, and use mixed methods research findings. Helpful checklists, figures, tables, templates, and much more give readers examples that will elevate the quality of their research, facilitate communication about their methods, and improve efficiency over the course of their projects. Real-world examples and insights from mixed methods researchers provide unique perspectives on every aspect of mixed methods research. This book successfully pulls together foundational mixed methods principles, synthesizes the knowledge base in the field, and translates it for a health science researcher audience. "The content is highly applicable to real life research teams in the areas of clinical research, health services research, and implementation science, providing sound content and practical advice. The authors have synthesized and pull key concepts from a variety of sources to provide a concise resource." —Linda M. Herrick, South Dakota State University "Everything from the references, to the topics, checklists, conceptual graphic representations, and organizers, interviews, and resources, all contribute to the content and aid with understanding and/or application. ... It addresses specific MM research as it pertains to health sciences in a way that other texts just do not even attempt." —Denise L. Winsor, University of Memphis "[This text is] a very pragmatic approach to mixed methods research; excellent resources, tables, and figures [are] provided, along with cases and examples of value to researchers and grant reviewers. Its relevance to practice, education, and research, as well as to potential policy implications, is a strong focus that would make this a valued textbook for any researcher!" ? —Karen Devereaux Melillo, University of Massachusetts Lowell "The text is cutting edge. It leads the way with its focus on team dynamics. [The authors] succeed in making the book relevant and practical. They also articulate a number of key insights in the area of mixed methods that rarely get addressed, such as teams and conflict. Great read with a lot of good, practical information for mixed methods researchers at all levels. The practical approach of this text makes it an innovative and valuable resource." —John G. Schumacher, University of Maryland

The connections between modern physics and medical technology Many remarkable medical technologies, diagnostic tools, and

treatment methods have emerged as a result of modern physics discoveries in the last century—including X-rays, radiation treatment, laser surgery, high-resolution ultrasound scans, computerized tomography (CT) scans, and magnetic resonance imaging. This undergraduate-level textbook describes the fundamental physical principles underlying these technological advances, emphasizing their applications to the practice of modern medicine. Intended for science and engineering students with one year of introductory physics background, this textbook presents the medical applications of fundamental principles of physics to students who are considering careers in medical physics, biophysics, medicine, or nuclear engineering. It also serves as an excellent reference for advanced students, as well as medical and health researchers, practitioners, and technicians who are interested in developing the background required to understand the changing landscape of medical science. Practice exercises are included and solutions are available separately in an instructor's manual. Complete discussion of the fundamental physical principles underlying modern medicine

Accessible exploration of the physics encountered in a typical visit to a doctor Practice exercises are included and solutions are provided in a separate instructor's manual (available to professors) A companion website (modernphysicsinmedicine.com) presents supplementary materials

Modern Practical Healthcare Issues in Biomedical Instrumentation describes the designs, applications and principles of several medical devices used in hospitals and at home. The book presents practical devices that can potentially be used for healthcare purposes. Sections cover the use of biosensors to monitor the physiological properties of the human body, focusing on devices used to evaluate, measure and manipulate the biological system, and highlighting practical devices that can potentially be used for healthcare purposes. It is an excellent resource for undergraduate, graduate and post-graduate students of biomedical engineering. Focuses on devices used to evaluate, measure and manipulate the biological system Describes the designs, applications and principles of several medical devices used in hospitals and at home Discusses various application and how their usage will help to aid health care delivery "This book is intended to provide a snapshot of the current state of representation of health and medicine in media, offering a resource for those in the field of health communication"--

Medical Genetics for the Modern Clinician is a concise, clinically oriented introductory genetics text for medical and allied health students, residents, and clinicians. The book focuses sharply on concepts that are most applicable to clinical practice. Ethics sections in each chapter discuss ethical issues facing today's practitioner, such as counseling, risk assessment, and testing. More than 120 illustrations help students visualize concepts. Each chapter ends with USMLE-style review questions. Appendices include a glossary and a Table of Genes that lists all genes covered in the text by chapter. Faculty resources, case studies, and downloadable full-color images will be available on connection.LWW.com/go/westman.

Forbidden Knowledge explores the censorship of medical books from their proliferation in print through the prohibitions placed on them during the Counter-Reformation. How and why did books banned in Italy in the sixteenth century end up back on library shelves in the seventeenth? Historian Hannah Marcus uncovers how early modern physicians evaluated the utility of banned books and facilitated their continued circulation in conversation with Catholic authorities. Through extensive archival research, Marcus highlights how talk of scientific utility, once thought to have begun during the Scientific Revolution, in fact began earlier, emerging from ecclesiastical censorship and the desire to continue to use banned medical books. What's more, this censorship in medicine, which preceded the Copernican debate in astronomy by sixty years, has had a lasting impact on how we talk about new and controversial developments in scientific knowledge. Beautiful illustrations accompany this masterful, timely book about the interplay between efforts at intellectual control and the utility of knowledge. This book is open access under a CC BY 4.0 license. This book breaks new ground by situating animals and their diseases at the very heart of modern medicine. In demonstrating their historical significance as subjects and shapers of medicine, it offers important insights into past animal lives, and reveals that what we think of as 'human' medicine was in fact deeply zoological. Each chapter analyses an important episode in which animals changed and were changed by medicine. Ranging across the animal inhabitants of Britain's zoos, sick sheep on Scottish farms, unproductive

livestock in developing countries, and the tapeworms of California and Beirut, they illuminate the multi-species dimensions of modern medicine and its rich historical connections with biology, zoology, agriculture and veterinary medicine. The modern movement for One Health – whose history is also analyzed – is therefore revealed as just the latest attempt to improve health by working across species and disciplines. This book will appeal to historians of animals, science and medicine, to those involved in the promotion and practice of One Health today. Indigenous naturopathic doctor Nicole Redvers pairs evidence-based research with traditional healing modalities, addressing modern health problems and medical processes. Modern medical science has finally caught up to what traditional healing systems have known for centuries. Many traditional healing techniques and medicines are often assumed to be archaic, outdated, or unscientific compared to modern Western medicine. Nicole Redvers, a naturopathic physician and member of the Deninu K'ue First Nation, analyzes modern Western medical practices using evidence-informed Indigenous healing practices and traditions from around the world—from sweat lodges and fermented foods to Ayurvedic doshas and meditation. Organized around various sciences, such as physics, genetics, and microbiology, the book explains the connection between traditional medicine and current research around epigenetics and quantum physics, for example, and includes over 600 citations. Redvers, who has traveled and worked with Indigenous groups around the world, shares the knowledge and teachings of health and wellness that have been passed down through the generations, tying this knowledge with current scientific advances. Knowing that the science backs up the traditional practice allows us to have earlier and more specific interventions that integrate age-old techniques with the advances in modern medicine and technology.

Modern Medical Microbiology - The Fundamentals is a unique text reference that represents the culmination of more than 70 articles written over eight years and brought together in one, easy-to-read volume. It describes in a chapter-by-chapter analysis, a vast range of common diseases and the microorganisms that cause them as well as covering issues such as health and safety, molecular biology and bio-terrorism. The book is set apart from others in the field by its easy accessibility to the core information and fills the niche left by larger texts. Key features: ·covers all major diseases - each with its own concise chapter ·up to date - articles have been rewritten or revised ·handy, non-bulky format - easy to use ·written specifically for biomedical science students This book will prove to be an essential text for students of microbiology, trainee scientists and undergraduate medical students involved in any aspect of microbiology. Its easy to follow style will also appeal to those with a general interest in microbiology and the impact it has on the modern world.

The Republic of Color delves deep into the history of color science in the United States to unearth its origins and examine the scope of its influence on the industrial transformation of turn-of-the-century America. For a nation in the grip of profound economic, cultural, and demographic crises, the standardization of color became a means of social reform—a way of sculpting the American population into one more amenable to the needs of the emerging industrial order. Delineating color was also a way to characterize the vagaries of human nature, and to create ideal structures through which those humans would act in a newly modern American republic. Michael Rossi's compelling history goes far beyond the culture of the visual to show readers how the control and regulation of color shaped the social contours of modern America—and redefined the way we see the world.

Emerging Trends in Oral Health Sciences and Dentistry is the second book on Oral Health Science. The first book is *Oral Health Care-Pediatric, Research, Epidemiology and clinical Practices and Oral Health Care-Prosthodontics, Periodontology, Biology, Research and systemic Conditions* published in February 2012. The present book is a reflection of the progress in Oral Health Sciences, practices and dentistry indicating the direction in which this stream of knowledge and education is likely to head forward. The book covers areas of General Dentistry, Paediatric and Preventive Dentistry, Geriatric and Prosthodontics, Orthodontics, Periodontology, Conservative Dentistry and Radiology and Oral Medicine. Medical articles are one of the main vehicles of knowledge translation and evidence communication in the health sciences. Their correct structure and style alone are no longer enough to convey a clear understanding of the intended message. Readers must be able to understand the very essence of the article message. That is the purpose of

this book. Writing, Reading, and Understanding in Modern Health Sciences: Medical Articles and Other Forms of Communication will help the authors of medical articles communicate more effectively in today's practice and health research environment. It explores the most effective practices for communicating using three main medical literature formats: through scientific articles, articles where the subject is not based on the practice of the scientific method, and business reports. Describing how to think beyond the prevailing IMRAD article format, this book focuses on the nature, content, domains of thought, and meanings of medical articles. The ideas and underlying propositions in this book are complementary to specific requirements appropriate for each type of medical journal. After reading this book you will better understand: How to write what is considered the most important type of medical article, the research-based medical article How to write an evidence-based argumentative medical article The challenges of clinical case reporting The general framework of medical and research ethics Classification of medical articles and their underlying studies from the causal standpoint Supplying you with the understanding required to write more effective medical articles, the book includes details about essay-type articles, research-based articles, thesis as introduction sections, definitions as part of the material and methods sections, modern argumentation and critical thinking underlying results and their discussion and conclusions about them. It also examines qualitative research and case study methodologies from other domains. A must-read for all writers, readers, and users of medical articles, this book supplies the tools you need to write compelling medical reports that can help to improve the practice, research, and quality of healthcare at all levels. "Vermin are not only pestering; they shape the way people look at each other and are a way that some people get to feel superior to others"-- The essays in Where's the Evidence? focus on problems ignored. This book is a unique collection of critical and controversial essays on intractable ethical issues and evidence-based problems in modern medicine. Most, but not therapeutic disasters. Although it is impossible to prevent all missteps in medicine, the author argues, a hedging strategy using concurrent controls when new therapies are introduced always reduces the number of patients killed or injured. It is dangerous to use treatments widely, he warns, before they are subject to rigorous comparative trials. Additionally, the author points out, questions have emerged about how to wield medicine's new capabilities wisely. How do we draw the line, he asks 'between knowing" (the acquisition of new medical information) and "doing" (the application of that new knowledge). What are the long- term consequences (moral, social, economic, and biological) of responding to a demand that medicine always do everything that can be done?' This book now issued in paperback is a collection of critical and controversial essays discussing intractable ethical issues and evidence-based problems in modern medicine. The essays together with responses were published over a ten-year period in the journal Paediatric and Perinatal Medicine. Most of the examples, but not all are taken from perinatal medicine, the field in which the author has worked for many years. The essays are thought provoking and will be of great interest to those involved in the ongoing evidence-based medicine debate. (See selected reviews)" Combining ancient Eastern wisdom (Ayurveda), thousand-year-old spiritual teachings, natural health science secrets, and the latest modern research, this book will reconnect you to the age-old wisdoms of health, as followed by the world's healthiest people. Selected and introduced by Richard Dawkins, The Oxford Book of Modern Science Writing is a celebration of the finest writing by scientists for a wider audience - revealing that many of the best scientists have displayed as much imagination and skill with the pen as they have in the laboratory. This is a rich and vibrant collection that captures the poetry and excitement of communicating scientific understanding and scientific effort from 1900 to the present day. Professor Dawkins has included writing from a diverse range of scientists, some of whom need no introduction, and some of whose works have become modern classics, while others may be less familiar - but all convey the passion of great scientists writing about their science. Accessible to medicine- and/or public policy-related audiences, as well as most statisticians. Emphasis on outliers is discussed by way of detection and treatment. Resampling statistics software is incorporated throughout. Motivating applications are presented in light of honest theory. Plentiful exercises are sprinkled throughout. The New Public Health has established itself as a solid textbook throughout the world. Translated into 7

languages, this work distinguishes itself from other public health textbooks, which are either highly locally oriented or, if international, lack the specificity of local issues relevant to students' understanding of applied public health in their own setting. This 3e provides a unified approach to public health appropriate for all masters' level students and practitioners—specifically for courses in MPH programs, community health and preventive medicine programs, community health education programs, and community health nursing programs, as well as programs for other medical professionals such as pharmacy, physiotherapy, and other public health courses. Changes in infectious and chronic disease epidemiology including vaccines, health promotion, human resources for health and health technology Lessons from H1N1, pandemic threats, disease eradication, nutritional health Trends of health systems and reforms and consequences of current economic crisis for health Public health law, ethics, scientific d health technology advances and assessment Global Health environment, Millennium Development Goals and international NGOs A modern, comprehensive treatment of latent class and latent transition analysis for categorical data On a daily basis, researchers in the social, behavioral, and health sciences collect information and fit statistical models to the gathered empirical data with the goal of making significant advances in these fields. In many cases, it can be useful to identify latent, or unobserved, subgroups in a population, where individuals' subgroup membership is inferred from their responses on a set of observed variables. Latent Class and Latent Transition Analysis provides a comprehensive and unified introduction to this topic through one-of-a-kind, step-by-step presentations and coverage of theoretical, technical, and practical issues in categorical latent variable modeling for both cross-sectional and longitudinal data. The book begins with an introduction to latent class and latent transition analysis for categorical data. Subsequent chapters delve into more in-depth material, featuring: A complete treatment of longitudinal latent class models Focused coverage of the conceptual underpinnings of interpretation and evaluation of a latent class solution Use of parameter restrictions and detection of identification problems Advanced topics such as multi-group analysis and the modeling and interpretation of interactions between covariates The authors present the topic in a style that is accessible yet rigorous. Each method is presented with both a theoretical background and the practical information that is useful for any data analyst. Empirical examples showcase the real-world applications of the discussed concepts and models, and each chapter concludes with a "Points to Remember" section that contains a brief summary of key ideas. All of the analyses in the book are performed using Proc LCA and Proc LTA, the authors' own software packages that can be run within the SAS® environment. A related Website houses information on these freely available programs and the book's data sets, encouraging readers to reproduce the analyses and also try their own variations. Latent Class and Latent Transition Analysis is an excellent book for courses on categorical data analysis and latent variable models at the upper-undergraduate and graduate levels. It is also a valuable resource for researchers and practitioners in the social, behavioral, and health sciences who conduct latent class and latent transition analysis in their everyday work. From a review of the first edition: "Modern Data Science with R... is rich with examples and is guided by a strong narrative voice. What's more, it presents an organizing framework that makes a convincing argument that data science is a course distinct from applied statistics" (The American Statistician). Modern Data Science with R is a comprehensive data science textbook for undergraduates that incorporates statistical and computational thinking to solve real-world data problems. Rather than focus exclusively on case studies or programming syntax, this book illustrates how statistical programming in the state-of-the-art R/RStudio computing environment can be leveraged to extract meaningful information from a variety of data in the service of addressing compelling questions. The second edition is updated to reflect the growing influence of the tidyverse set of packages. All code in the book has been revised and styled to be more readable and easier to understand. New functionality from packages like sf, purrr, tidymodels, and tidytext is now integrated into the text. All chapters have been revised, and several have been split, re-organized, or re-imagined to meet the shifting landscape of best practice.

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