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This book brings together psychometric, cognitive science, policy, and content domain perspectives on new approaches to educational assessment -- in particular, constructed response, performance testing, and portfolio assessment. These new assessment approaches -- a full range of alternatives to traditional multiple-choice tests -- are useful in all types of large-scale testing programs, including educational admissions, school accountability, and placement. This book's multi-disciplinary perspective identifies the potential advantages and pitfalls of these new assessment forms, as well as the critical research questions that must be addressed if these assessment methods are to benefit education.

Powerful, Flexible Tools for a Data-Driven World As the data deluge continues in today's world, the need to master data mining, predictive analytics, and business analytics has never been greater. These techniques and tools provide unprecedented insights into data, enabling better decision making and forecasting, and ultimately the solution of increasingly complex problems. Learn from the Creators of the RapidMiner Software Written by leaders in the data mining community, including the developers of the RapidMiner software, *RapidMiner: Data Mining Use Cases and Business Analytics Applications* provides an in-depth introduction to the application of data mining and business analytics techniques and tools in scientific research, medicine, industry, commerce, and diverse other sectors. It

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presents the most powerful and flexible open source software solutions: RapidMiner and RapidAnalytics. The software and their extensions can be freely downloaded at www.RapidMiner.com. Understand Each Stage of the Data Mining Process The book and software tools cover all relevant steps of the data mining process, from data loading, transformation, integration, aggregation, and visualization to automated feature selection, automated parameter and process optimization, and integration with other tools, such as R packages or your IT infrastructure via web services. The book and software also extensively discuss the analysis of unstructured data, including text and image mining. Easily Implement Analytics Approaches Using RapidMiner and RapidAnalytics Each chapter describes an application, how to approach it with data mining methods, and how to implement it with RapidMiner and RapidAnalytics. These application-oriented chapters give you not only the necessary analytics to solve problems and tasks, but also reproducible, step-by-step descriptions of using RapidMiner and RapidAnalytics. The case studies serve as blueprints for your own data mining applications, enabling you to effectively solve similar problems. Ecology, biodiversity and conservation are interrelated fields of study concerned with assessing, evaluating and maintaining the ecological balance of our planet. The focus areas of ecology and biodiversity are planning and management of natural resources, biodiversity maintenance as well as sustaining genetic diversity for wildlife species conservation. The interdisciplinary branches of evolutionary ecology, biology, genetics and

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ethology are studied to formulate conservation methodologies. This book provides the latest research and technological advancements in the field of ecology, biodiversity and conservation. It strives to provide significant knowledge on these frontiers and help to develop a holistic understanding of these fields. The book is appropriate for students seeking detailed information in this area as well as for experts, ecologists, environmentalists and conservationists.

This writer and illustrator describes her life, her daily activities, and her creative process, showing how all are intertwined.

Written with the aim of breaking down barriers between disparate disciplines in order to create more responsive and effective strategies, *Natural Security* provides a new lens through which to explore the ancient and ever present problem of how to maintain security in an unpredictable, complex, and dangerous world."--BOOK JACKET.

Mathematical Biology is a richly illustrated textbook in an exciting and fast growing field. Providing an in-depth look at the practical use of math modeling, it features exercises throughout that are drawn from a variety of bioscientific disciplines - population biology, developmental biology, physiology, epidemiology, and evolution, among others. It maintains a consistent level throughout so that graduate students can use it to gain a foothold into this dynamic research area.

The study of evolution at the molecular level has given the subject of evolutionary biology a new significance. Phylogenetic 'trees' of gene sequences are a powerful

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tool for recovering evolutionary relationships among species, and can be used to answer a broad range of evolutionary and ecological questions. They are also beginning to permeate the medical sciences. In this book, the authors approach the study of molecular evolution with the phylogenetic tree as a central metaphor. This will equip students and professionals with the ability to see both the evolutionary relevance of molecular data, and the significance evolutionary theory has for molecular studies. The book is accessible yet sufficiently detailed and explicit so that the student can learn the mechanics of the procedures discussed. The book is intended for senior undergraduate and graduate students taking courses in molecular evolution/phylogenetic reconstruction. It will also be a useful supplement for students taking wider courses in evolution, as well as a valuable resource for professionals. First student textbook of phylogenetic reconstruction which uses the tree as a central metaphor of evolution. Chapter summaries and annotated suggestions for further reading. Worked examples facilitate understanding of some of the more complex issues. Emphasis on clarity and accessibility. New technology has brought with it new tools for learning, and research has shown that the educational potential of video games resonates with teachers and pupils alike. Klopfer here describes the largely untapped potential of mobile learning games to make a substantial impact on education. This edited book provides a global view on evolution

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education. It describes the state of evolution education in different countries that are representative of geographical regions around the globe such as Eastern Europe, Western Europe, North Africa, South Africa, North America, South America, Middle East, Far East, South East Asia, Australia, and New Zealand. Studies in evolution education literature can be divided into three main categories: (a) understanding the interrelationships among cognitive, affective, epistemological, and religious factors that are related to peoples' views about evolution, (b) designing, implementing, evaluating evolution education curriculum that reflects contemporary evolution understanding, and (c) reducing antievolutionary attitudes. This volume systematically summarizes the evolution education literature across these three categories for each country or geographical region. The individual chapters thus include common elements that facilitate a cross-cultural meta-analysis. Written for a primarily academic audience, this book provides a much-needed common background for future evolution education research across the globe. Assuming only a basic knowledge of molecular biology, this is the fourth in a series of manuals which explains how to clone, manipulate, analyze and sequence large segments of DNA, and relate expressed sequence to phenotypic variation. The techniques are written for application to animal DNA

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as well as human genomes. They deal plainly with sources of failure, and solutions.

“We share a common bond with even the most bizarre beetle of the Peruvian rain forest,” asserts John Janovy Jr. “A belief in that common bond might, in fact, be the most fundamental characteristic of a biologist.” And biologists see the worth of a plant or an animal not in monetary terms but in its contribution to our understanding of life. The famous naturalist brings a humanist’s vision to this superbly written book. *Becoming a Biologist* is grounded in reality, cognizant of practical matters (education and jobs) as well as the ideals that inform the profession—a reverence for life and a responsibility to humankind and its future. Janovy draws on his experiences as a graduate and postdoctoral student, on his rewarding relationships with teachers, and on his fieldwork as a naturalist. This edition includes new information throughout the book regarding pertinent events, issues, and changes in technology. A new edition of the classic study of the relationship between predator and prey follows the life cycles of the wolves in Michigan’s Isle Royale National Park and the mood on the island, offering a firsthand account of the nearly fifty-year wildlife study, complemented by more than one hundred color photographs. Reprint.

Building on the foundation set in Volume I—a landmark synthesis of research in the field—Volume II

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is a comprehensive, state-of-the-art new volume highlighting new and emerging research perspectives. The contributors, all experts in their research areas, represent the international and gender diversity in the science education research community. The volume is organized around six themes: theory and methods of science education research; science learning; culture, gender, and society and science learning; science teaching; curriculum and assessment in science; science teacher education. Each chapter presents an integrative review of the research on the topic it addresses—pulling together the existing research, working to understand the historical trends and patterns in that body of scholarship, describing how the issue is conceptualized within the literature, how methods and theories have shaped the outcomes of the research, and where the strengths, weaknesses, and gaps are in the literature. Providing guidance to science education faculty and graduate students and leading to new insights and directions for future research, the Handbook of Research on Science Education, Volume II is an essential resource for the entire science education community.

Biology was forged into a single, coherent science only within living memory. In this volume the thinkers responsible for the "modern synthesis" of evolutionary biology and genetics come together to analyze that remarkable event. In a new Preface,

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Ernst Mayr calls attention to the fact that scientists in different biological disciplines varied considerably in their degree of acceptance of Darwin's theories. Mayr shows us that these differences were played out in four separate periods: 1859 to 1899, 1900 to 1915, 1916 to 1936, and 1937 to 1947. He thus enables us to understand fully why the synthesis was necessary and why Darwin's original theory—that evolutionary change is due to the combination of variation and selection—is as solid at the end of the twentieth century as it was in 1859.

Engineering Electromagnetics provides a solid foundation in electromagnetics fundamentals by emphasizing physical understanding and practical applications. Electromagnetics, with its requirements for abstract thinking, can prove challenging for students. The authors' physical and intuitive approach has produced a book that will inspire enthusiasm and interest for the material. Benefiting from a review of electromagnetic curricula at several schools and repeated use in classroom settings, this text presents material in a rigorous yet readable manner. FEATURES/BENEFITS Starts with coverage of transmission lines before addressing fundamental laws, providing a smooth transition from circuits to electromagnetics. Emphasizes physical understanding and the experimental bases of fundamental laws. Offers detailed examples and numerous practical end-of-chapter problems, with

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each problem's topical content clearly identified. Provides historical notes, abbreviated biographies, and hundreds of footnotes to motivate interest and enhance understanding. Back Cover Benefiting from a review of electromagnetics curricula at several schools and repeated use in classroom settings, this text presents material in a comprehensive and practical yet readable manner. Features: Starts with coverage of transmission lines before addressing fundamental laws, providing a smooth transition from circuits to electromagnetics. Emphasizes physical understanding and the experimental bases of fundamental laws. Offers detailed examples and numerous practical end-of-chapter problems, with each problem's topical content clearly identified. Provides historical notes, abbreviated biographies, and hundreds of footnotes to motivate interest and enhance understanding.

The true story behind the acclaimed movie 12 Years a Slave, this book is based on the life of Solomon Northup, a free black man from New York who was captured in the United States and sold into slavery in Louisiana. Solomon Northup awoke in the middle of the night with his body trembling. Slowly, he realized that he was handcuffed in a dark room and his feet were chained to the floor. He managed to slip his hand into his pocket to look for his free papers that proved he was one of 400,000 free blacks in a nation where 2.5 million other African Americans were

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slaves. They were gone. This remarkable story follows Northup through his 12 years of bondage as a man kidnapped into slavery, enduring the hardships of slave life in Louisiana. But the tale also has a remarkable ending. Northup is rescued from his master's cotton plantation in the deep South by friends in New York. This is a compelling tale that looks into a little known slice of history, sure to rivet young readers and adults alike. National Geographic supports K-12 educators with ELA Common Core Resources. Visit www.natgeoed.org/commoncore for more information.

Despite the billions of dollars we've poured into foreign wars, homeland security, and disaster response, we are fundamentally no better prepared for the next terrorist attack or unprecedented flood than we were in 2001. Our response to catastrophe remains unchanged: add another step to airport security, another meter to the levee wall. This approach has proved totally ineffective: reacting to past threats and trying to predict future risks will only waste resources in our increasingly unpredictable world. In *Learning from the Octopus*, ecologist and security expert Rafe Sagarin rethinks the seemingly intractable problem of security by drawing inspiration from a surprising source: nature. Biological organisms have been living -- and thriving -- on a risk-filled planet for billions of years. Remarkably, they have done it without planning, predicting, or

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trying to perfect their responses to complex threats. Rather, they simply adapt to solve the challenges they continually face. Military leaders, public health officials, and business professionals would all like to be more adaptable, but few have figured out how. Sagarin argues that we can learn from observing how nature is organized, how organisms learn, how they create partnerships, and how life continually diversifies on this unpredictable planet. As soon as we dip our toes into a cold Pacific tidepool and watch what we thought was a rock turn into an octopus, jetting away in a cloud of ink, we can begin to see the how human adaptability can mimic natural adaptation. The same mechanisms that enabled the octopus's escape also allow our immune system to ward off new infectious diseases, helped soldiers in Iraq to recognize the threat of IEDs, and aided Google in developing faster ways to detect flu outbreaks. While we will never be able to predict the next earthquake, terrorist attack, or market fluctuation, nature can guide us in developing security systems that are not purely reactive but proactive, holistic, and adaptable. From the tidepools of Monterey to the mountains of Kazakhstan, Sagarin takes us on an eye-opening tour of the security challenges we face, and shows us how we might learn to respond more effectively to the unknown threats lurking in our future.

This edited volume is provides an authoritative

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synthesis of knowledge about the history of life. All the major groups of organisms are treated, by the leading workers in their fields. With sections on: The Importance of Knowing the Tree of Life; The Origin and Radiation of Life on Earth; The Relationships of Green Plants; The Relationships of Fungi; and The Relationships of Animals. This book should prove indispensable for evolutionary biologists, taxonomists, ecologists interested in biodiversity, and as a baseline sourcebook for organismic biologists, botanists, and microbiologists. An essential reference in this fundamental area.

Evolution presents foundational concepts through a contemporary framework of population genetics and phylogenetics that is enriched by current research and stunning art. In every chapter, new critical thinking questions and expanded end-of-chapter problems emphasizing data interpretation reinforce the Second Edition's focus on helping students think like evolutionary biologists.

The horse has frequently been used as a classic example of long-term evolution because it possesses an extensive fossil record. This book synthesizes the large body of data and research relevant to an understanding of fossil horses from perspectives such as biology, geology, paleontology. The Shepherd of the Hills is the classic story of the stranger who takes the Old Trail deep into the Ozark Mountains, many miles from civilization. His

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appearance signals intellect and culture, yet his countenance is marked by grief and disappointment. What is his purpose in taking on the lowly work of tending local sheep? And how is it that he befriends these simple hill folk, despite his coming from the world beyond the ridges? Mystery and romance envelop this gentle yet compelling story as the identity and purpose of the stranger-turned-shepherd is gradually unveiled.

Biology is a source of fascination for most scientists, whether their training is in the life sciences or not. In particular, there is a special satisfaction in discovering an understanding of biology in the context of another science like mathematics. Fortunately there are plenty of interesting (and fun) problems in biology, and virtually all scientific disciplines have become the richer for it. For example, two major journals, *Mathematical Biosciences* and *Journal of Mathematical Biology*, have tripled in size since their inceptions 20-25 years ago. The various sciences have a great deal to give to one another, but there are still too many fences separating them. In writing this book we have adopted the philosophy that mathematical biology is not merely the intrusion of one science into another, but has a unity of its own, in which both the biology and the mathematics should be equal and complete, and should flow smoothly into and out of one another. We have taught mathematical biology with this philosophy in mind and have seen profound changes in the outlooks of our science and engineering students: The attitude of "Oh no, another pendulum on a spring problem!" or "Yet one more LCD circuit!" completely disappeared in the face of applications of mathematics in biology. There is a timeliness in calculating a protocol for administering a drug.

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Bernard R. Gifford As we edge toward the year 2000, the information age is a reality; the global marketplace is increasingly competitive; and the U.S. labor force is shrinking. Today more than ever, our nation's economic and social well-being hinges on our ability to tap our human resources-to identify talent, to nurture it, and to assess abilities and disabilities in ways that help every individual reach his or her full potential. In pursuing that goal, decision-makers in education, industry, and government are relying increasingly on standardized tests: sets of question- with identical directions, time limits and tasks for all test-takers-designed to permit an inference about what someone knows or can do in a particular area. CALIBRATING DIFFERENCE Our emphasis on standardized testing rests on a premise that is so basic it often escapes notice: that we humans are different from each other in ways that are both meaningful and measurable. We differ in terms of cognitive ability; aptitude for performing different kinds of mental and physical tasks; temperament; and interests. But somehow, without sufficient examination, we have taken a great collective leap from that commonplace to the notion that there are precise, measurable gradations of innate ability that can be used to direct children to the right classrooms, and adults to the right job slots.

Sport Management: The Basics is an engaging and accessible introduction to sport management which considers a range of contemporary philosophical, social, cultural and political matters as they impact on this growing field. Drawing links between academic theory and practice, it explores the current challenges facing managers in the sport industry, addressing topics including: the history of sport management the role of the manager levels of management the public, private and voluntary sectors sport management in the global marketplace With suggestions for further reading throughout

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the text, a comprehensive chapter on employment and employability, and case studies which explore both theory and practice, *Sport Management: The Basics* offers a clear and concise introduction for anyone seeking to study or work in sport management.

This text presents mathematical biology as a field with a unity of its own, rather than only the intrusion of one science into another. The book focuses on problems of contemporary interest, such as cancer, genetics, and the rapidly growing field of genomics.

"Wendy Lesser's extraordinary alertness, intelligence, and curiosity have made her one of America's most significant cultural critics," writes Stephen Greenblatt. In *Why I Read*, Lesser draws on a lifetime of pleasure reading and decades of editing one of the most distinguished literary magazines in the country, *The Threepenny Review*, to describe her love of literature. As Lesser writes in her prologue, "Reading can result in boredom or transcendence, rage or enthusiasm, depression or hilarity, empathy or contempt, depending on who you are and what the book is and how your life is shaping up at the moment you encounter it." Here the reader will discover a definition of literature that is as broad as it is broad-minded. In addition to novels and stories, Lesser explores plays, poems, and essays along with mysteries, science fiction, and memoirs. As she examines these works from such perspectives as "Character and Plot," "Novelty," "Grandeur and Intimacy," and "Authority," *Why I Read* sparks an overwhelming desire to put aside quotidian tasks in favor of reading. Lesser's passion for this pursuit resonates on every page, whether she is discussing the book as a physical object or a particular work's influence. "Reading literature is a way of reaching back to something bigger and older and different," she writes. "It can give you the feeling that you belong to the past as well as the present, and it can help you

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realize that your present will someday be someone else's past. This may be disheartening, but it can also be strangely consoling at times." A book in the spirit of E. M. Forster's Aspects of the Novel and Elizabeth Hardwick's A View of My Own, Why I Read is iconoclastic, conversational, and full of insight. It will delight those who are already avid readers as well as neophytes in search of sheer literary fun.

Understanding the National Electrical Code-Volume 2, 2002 Edition was written to provide insight into and an understanding of, many of the technical rules of the NEC. This book covers Articles 500-830. Subjects include: Hazardous (Classified) Locations, Motor Fuel Dispensing Facilities, Health Care Facilities, Manufactured Wiring Systems, Swimming Pools, Fountains and Similar Installations, Emergency Systems, Optical Fiber Cables and Raceways and more.

Australia invoked the ANZUS Alliance following the Al Qaeda attacks in the United States on 11 September 2001. But unlike the calls to arms at the onset of the world wars, Australia decided to make only carefully calibrated force contributions in support of the US-led coalition campaigns in Afghanistan and Iraq. Why is this so? Niche Wars examines Australia's experience on military operations in Afghanistan and Iraq from 2001 to 2014. These operations saw over 40 Australian soldiers killed and hundreds wounded. But the toll since has been greater. For Afghanistan and Iraq the costs are hard to measure. Why were these forces deployed? What role did Australia play in shaping the strategy and determining the outcome? How effective were they? Why is so little known about Australia's involvement in these campaigns? What lessons can be learned from this experience? Niche Wars commences with a scene-setting overview of Australia's military involvement in the Middle East over more than a century. It then draws on unique insights from many angles,

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across a spectrum of men and women, ranging from key Australian decision makers, practitioners and observers. The book includes a wide range of perspectives in chapters written by federal government ministers, departmental secretaries, service commanders, task force commanders, sailors, soldiers, airmen and women, international aid workers, diplomats, police, journalists, coalition observers and academics. Niche Wars makes for compelling reading but also stands as a reference work on how and why Australia became entangled in these conflicts that had devastating consequences. If lessons can be learned from history about how Australia uses its military forces, this book is where to find them.

Presents calculus development by integrating technology (with either graphing calculator or computer). The Computational Windows feature offers insights into how technological advances can be used to help understand calculus. Solutions Manual (0-13-178732-2).

This clear and lively introduction to probability theory concentrates on the results that are the most useful for applications, including combinatorial probability and Markov chains. Concise and focused, it is designed for a one-semester introductory course in probability for students who have some familiarity with basic calculus. Reflecting the author's philosophy that the best way to learn probability is to see it in action, there are more than 350 problems and 200 examples. The examples contain all the old standards such as the birthday problem and Monty Hall, but also include a number of applications not

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found in other books, from areas as broad ranging as genetics, sports, finance, and inventory management.

Genfortælling af heltedigtet om Beowulf

Focuses on organisational goals and those of other stakeholders and society at large. This book provides an insight into the potential benefits and pitfalls, expectations and concerns of advancing a critical view of HRD in practice. It is intended for lecturers, students and practitioners who are aching for a critical analysis.

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