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CAREY MATHEWS

This volume examines the changing pattern of trade in manufactured goods by the use of econometric techniques. The method of investigation employed is cross-section analysis of data for thirty-eight developed and developing countries, for each of which manufactured goods accounted for at least 18 percent of total exports and surpassed $300 million in 1979. The results may further be interpreted in terms of the changes that occur in the pattern of specialization in the process of economic development. The Principles of Biology sequence (BI 211, 212 and 213) introduces biology as a scientific discipline for students planning to major in biology and other science disciplines. Laboratories and classroom activities introduce techniques used to study biological processes and provide opportunities for students to develop their ability to conduct research.

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A National Science Foundation (NSF) funded high school series for all students Contemporary Mathematics in Context engages students in investigation-based, multi-day lessons organized around big ideas. Important mathematical concepts are developed in relevant contexts by students in ways that make sense to them. Courses 1, along with Courses 2 and 3, comprise a core curriculum that upgrades the mathematics experience for all your students. Course 4 is designed for all college-bound students. Developed with funding from the National Science Foundation, each course is the product of a four-year research, development, and evaluation process involving thousands of students in schools across the country.

Originally published in 1991, this volume represents the first systematic attempt to apply a pattern approach to a comprehensive longitudinal investigation. It focuses on individual differences in female career development, from early adolescence through young adulthood. Rather than constructing a general model of career development, the authors use the interplay between theory and observation to build networks of patterns demonstrating the long-term consequences for adult women's career involvement, their educational levels, their family commitments, and their social networks. Throughout their investigation the authors interpret individuals' patterns as characterizing processes that underlie women's differential development. They illustrate that a research strategy oriented toward pattern analysis and related methodology reveals information that is generally obscured in more traditional variable-oriented designs. They also argue that a pattern approach is particularly suited to the tenets of modern interactionism, which provides the theoretical foundation of the study.

A clear and concise introduction and reference for anyone new to the subject of statistics.

Key Variables in Social Investigation encourages sociologists and other social scientists to think about the conceptual and empirical problems of using and evaluating key variables in social research. The book contains reviews of ten major variables: age; gender; race and ethnicity; health and illness; education; social class and occupation; work, employment and unemployment and unemployment; leisure; politics; and voluntary ways in which concepts can be specified and translated into variables and indicators.

Statistical methods are a key part of of data science, yet very few data scientists have any formal statistics training. Courses and books on basic statistics rarely cover the topic from a data science perspective. This practical guide explains how to apply various statistical methods to data science, tells you how to avoid their misuse, and gives you advice on what's important and what's not. Many data science resources incorporate statistical methods but lack a deeper statistical perspective. If you're familiar with the R programming language, and have some exposure to statistics, this quick reference bridges the gap in an accessible, readable format. With this book, you'll learn: Why exploratory data analysis is a key preliminary step in data science How random sampling can reduce bias and yield a higher quality dataset, even with big data How the principles of experimental design yield definitive answers to questions How to use regression to estimate outcomes and detect anomalies Key classification techniques for predicting which categories a record belongs to Statistical machine learning methods that "learn" from data Unsupervised learning methods for extracting meaning from unlabeled data

In an ever more digitized world, it necessary to embed digital technology in business strategy, leading to an overarching phenomenon called the digital business strategy. Accordingly, this thesis sets out to advance the understanding, the digital business strategy concept in general as well as its influence on a company's performance. At the same time, incumbents are often constrained by path dependencies and inertia as executives tend to make use of prior experiences and favor strategic choices they are familiar with over unfamiliar As a consequence, companies may stick to a specific path which restrains transformational change. Accordingly, the study elucidates the ongoing digital transformation as it manifests itself in the evolution of incumbents' digital business strategies. In addition, this thesis seeks to derive important implications for business practice, as it helps practitioners to develop a better understanding of digital business strategies, especially considering that digitalization challenges the conventional wisdom of competition. This is particularly impor-

tant, as with increasing digitalization, tightly integrated digital business strategies will be among the biggest determinants of a company's future success. In einer immer stärker digitalisierten Welt ist es wichtig digitale Technologien in die Geschäftsstrategie eines Unternehmens einzubetten, was zu einem übergreifenden Phänomen führt, das als digitale Geschäftsstrategie bezeichnet wird. Dementsprechend zielt diese Arbeit darauf ab, das Verständnis des Konzepts der digitalen Geschäftsstrategie im Allgemeinen sowie dessen Einfluss auf die Performance eines Unternehmens zu verbessern. Gleichzeitig sind etablierte Unternehmen oft durch Pfadabhängigkeiten und Trägheit eingeschränkt, da Führungskräfte dazu neigen, auf frühere Erfahrungen zurückzugreifen und strategische Entscheidungen, mit denen sie vertraut sind, gegenüber unbekannten Optionen zu bevorzugen In der Folge verharren Unternehmen auf einem bestimmten strategischen Pfad, was transformatorischen Wandel hemmt. Dementsprechend beleuchtet die Studie die laufende digitale Transformation und wie diese sich in der Entwicklung der digitalen Geschäftsstrategien etablierter Unternehmen manifestiert. Darüber hinaus versucht diese Arbeit, wichtige Implikationen für die Unternehmenspraxis abzuleiten, da sie Praktikern hilft, ein besseres Verständnis für digitale Geschäftsstrategien zu entwickeln, insbesondere in Anbetracht der Tatsache, dass die Digitalisierung die konventionelle Weisheit des Wettbewerbs herausfordert. Dies ist besonders wichtig, da mit zunehmender Digitalisierung eng integrierte digitale Geschäftsstrategien zu den größten Determinanten für den zukünftigen Erfolg eines Unternehmens gehören werden.

Gait analysis is the systematic study of human walking, using the eye and brain of experienced observers, augmented by instrumentation for measuring body movements, body mechanics, and the activity of the muscles. Since Aristotle's work on gait analysis more than 2000 years ago, it has become an established clinical science used extensively in the healthcare and rehabilitation fields for diagnosis and treatment. Forensic Gait Analysis details the more recent, and rapidly developing, uses of gait analysis in the forensic sciences. This includes using observational gait analysis, especially based on video recordings, to assist in the process of identifying individuals. With the increase in use of CCTV and surveillance systems over the last 20 to 30 years, there has been a steady and rapid increase in the use of gait as evidence. Cur-

rently, gait analysis is widely used in the UK in criminal investigations, with increasing awareness of its potential use in the US, Europe, and globally. The book details the history of the science, current practices, and emergent application to establish best-practice standards that conform to those of other forensic science disciplines. Engagement with the Forensic Science Regulator, the Chartered Society of Forensic Sciences in the UK, and the International Association for Identification has helped to ensure and enhance the quality assurance of forensic gait analysis. However, there remains a fundamental lack of standardized training and methodology for use in an evidentiary and investigative capacity. This book fills that void, serving as one of the first books to reflect the state of current practice and capabilities—outlining a standard of practice and expectations as to what gait analysis, and by association gait analysis experts, and corroborate. Forensic Gait Analysis will reflect the research and current forensic practices and serve as a state-of-the-art, definitive guide to the use of gait analysis in the forensic context—for both education and training purposes. It will be a welcome addition to the library of professionals in the areas of podiatry, gait analysis, forensic video analysis, law enforcement, and legal practitioners.

Focused on engaging all students, Inclusive Teaching in the Early Childhood Science Classroom walks readers through the process of planning, developing, and implementing science instruction for early learners. Drawing on a range of pedagogical processes and approaches, this comprehensive text links science to other disciplines and explores how we develop language, social-emotional, and content learning through early childhood science. Each chapter is framed around an essential question and features success criteria and reflection tasks to guide readers through the content. Aligned with the Next Generation Science Standards and addressing the Interstate New Teacher Assessment and Support Consortium Model Core Teaching Standards, this textbook is critical reading for preservice teacher education students enrolled in an inclusive early childhood or early childhood science methods course.

In the United States, some populations suffer from far greater disparities in health than others. Those disparities are caused not only by fundamental differences in health status across segments of the population, but also because of inequities in factors that impact health status, so-called determinants of health. Only part of

an individual's health status depends on his or her behavior and choice; community-wide problems like poverty, unemployment, poor education, inadequate housing, poor public transportation, interpersonal violence, and decaying neighborhoods also contribute to health inequities, as well as the historic and ongoing interplay of structures, policies, and norms that shape lives. When these factors are not optimal in a community, it does not mean they are intractable: such inequities can be mitigated by social policies that can shape health in powerful ways. Communities in Action: Pathways to Health Equity seeks to delineate the causes of and the solutions to health inequities in the United States. This report focuses on what communities can do to promote health equity, what actions are needed by the many and varied stakeholders that are part of communities or support them, as well as the root causes and structural barriers that need to be overcome.

'Research Methods in the Biosciences' demystifies the process of research and describes all the factors that enable effective investigation. These include planning your experiment; data collection, analysis, interpretation, and reporting; and legal, ethical, and health & safety considerations.

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Mathematics of Computing -- General.

These are the conference proceedings of the 4th International Conference on Discovery Science (DS 2001). Although discovery is naturally ubiquitous in s- ence, and scientific discovery itself has been subject to scientific investigation for centuries, the term Discovery Science is comparably new. It came up in conn- tion with the Japanese Discovery Science project (cf. Arikawa's invited lecture on The Discovery Science Project in Japan in the present volume) some time during the last few years. Setsuo Arikawa is the father in spirit of the Discovery Science conference series. He led the above mentioned project, and he is currently serving as the chairman of the international steering committee for the Discovery Science c- ference series. The other members of this board are currently (in alphabetical order) Klaus P. Jantke, Masahiko Sato, Ayumi Shinohara, Carl H. Smith, and Thomas Zeugmann. Colleagues and friends from all over the world took the opportunity

of me- ing for this conference to celebrate Arikawa's 60th birthday and to pay tribute to his manifold contributions to science, in general, and to Learning Theory and Discovery Science, in particular. Algorithmic Learning Theory (ALT, for short) is another conference series initiated by Setsuo Arikawa in Japan in 1990. In 1994, it amalgamated with the conference series on Analogical and Inductive Inference (AII), when ALT was held outside of Japan for the first time.

"Complete coverage of algebra 1 by the end of grade 8"--Catalog cover.

World Windows introduces young learners to essential themes and concepts in Science and Social Studies, through National Geographic photography and content. Using non-fiction readings, World Windows helps to develop young learnerse(tm) fluency in English, and ignites their curiosity about the world around them.

Missing data pose challenges to real-life data analysis. Simple ad-hoc fixes, like deletion or mean imputation, only work under highly restrictive conditions, which are often not met in practice. Multiple imputation replaces each missing value by multiple plausible values. The variability between these replacements reflects our ignorance of the true (but missing) value. Each of the completed data set is then analyzed by standard methods, and the results are pooled to obtain unbiased estimates with correct confidence intervals. Multiple imputation is a general approach that also inspires novel solutions to old problems by reformulating the task at hand as a missing-data problem. This is the second edition of a popular book on multiple imputation, focused on explaining the application of methods through detailed worked examples using the MICE package as developed by the author. This new edition incorporates the recent developments in this fast-moving field. This class-tested book avoids mathematical and technical details as much as possible: formulas are accompanied by verbal state-ments that explain the formula in accessible terms. The book sharpens the reader's intuition on how to think about missing data, and provides all the tools needed to execute a well-grounded quantitative analysis in the presence of missing data.

The work of a crime scene investigator requires stellar organizational skills and razor-sharp attention to detail. Developing these skills is best achieved through hands-on training simulating actual case events. Crime Scene Processing and Investigation Workbook takes students from the classroom to the field and into the lab to explore a range of scenarios they will likely encounter on the job. Exercises presented in this practical handbook include assessing the scene, crime scene photography and mapping, fingerprint evidence, documentation, impression-casting, bloodstain pattern recognition, and advanced techniques for scene processing. The book also examines the actions of the initial responding officer, highlights special scene considerations, and describes the role of crime scene analysis and reconstruction. Designed to complement Gardner's Practical Crime Scene Processing and Investigation, this manual uses a consistent format throughout to ensure assimilation. Each chapter begins with a list of key terms and provides learning outcomes that describe the goal of the chapter. Tasks are then broken down into specific segments, with objectives, necessary materials, and a concept overview provided to promote heightened focus on salient points in the chapter. Post-lab questions enable students to test their grasp of the material and sample worksheets are provided that can be duplicated and used in actual case scenarios. By practicing the techniques described in this manual, students will be ready when they encounter them for the first time on the job.

Scores of talented and dedicated people serve the forensic science community, performing vitally important work. However, they are often constrained by lack of adequate resources, sound policies, and national support. It is clear that change and advancements, both systematic and scientific, are needed in a number of forensic science disciplines to ensure the reliability of work, establish enforceable standards, and promote best practices with consistent application. Strengthening Forensic Science in the United States: A Path Forward provides a detailed plan for addressing these needs and suggests the creation of a new government entity, the National Institute of Forensic Science, to establish and enforce standards within the forensic science community. The benefits of improving and regulating the forensic science disciplines are clear: assisting law enforcement officials, enhancing homeland security, and reducing the risk of wrongful conviction and exoneration. Strengthening Forensic Science in the United States gives a full account of what is needed to advance the forensic science disciplines, including upgrading of systems and organizational structures, better training, widespread adoption of uniform and enforceable best practices, and mandatory certification and accreditation programs. While this book provides an essential call-to-action for congress and policy makers, it also serves as a vital tool for law enforcement agencies, criminal prosecutors and attorneys, and forensic science educators.

Contains a complete sixth grade mathematics curriculum with connections to other subject areas.

"This book provides a media for advancing research and the development of theory and practice of digital crime prevention and forensics, embracing a broad range of digital crime and forensics disciplines"--Provided by publisher.

"The text is suitable for a typical introductory algebra course, and was developed to be used flexibly. While the breadth of topics may go beyond what an instructor would cover, the modular approach and the richness of content ensures that the book meets the needs of a variety of programs."--Page 1.