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This edition features the exact same content as the traditional text in a convenient, three-hole- punched, loose-leaf version. Books a la Carte also offer a great value—this format costs significantly less than a new textbook. Numerical Analysis, Second Edition, is a modern and readable text. This book covers not only the standard topics but also some more advanced numerical methods being used by computational scientists and engineers—topics such as compression, forward and backward error analysis, and iterative methods of solving equations—all while maintaining a level of discussion appropriate for undergraduates. Each chapter contains a Reality Check, which is an extended exploration of relevant application areas that can launch individual or team projects. MATLAB® is used throughout to demonstrate and implement numerical methods. The Second Edition features many noteworthy improvements based on feedback from users, such as new coverage of Cholesky factorization, GMRES methods, and nonlinear PDEs.

Introduces cutting-edge research on machine learning theory and practice, providing an accessible, modern algorithmic toolkit.

Eyewitnesses play an important role in criminal cases when they can identify culprits. Estimates suggest that tens of thousands of eyewitnesses make identifications in criminal investigations each year. Research on factors that affect the accuracy of eyewitness identification procedures has given us an increasingly clear picture of how identifications are made, and more importantly, an improved understanding of the principled limits on vision and memory that can lead to failure of identification. Factors such as viewing conditions, duress, elevated emotions, and biases influence the visual perception experience. Perceptual experiences are stored by a system of memory that is highly malleable and continuously evolving, neither retaining nor divulging content in an informational vacuum. As such, the fidelity of our memories to actual events may be compromised by many factors at all stages of processing, from encoding to storage and retrieval. Unknown to the individual, memories are forgotten, reconstructed, updated, and distorted. Complicating the process further, policies governing law enforcement procedures for conducting and recording identifications are not standard, and policies and practices to address the issue of misidentification vary widely. These limitations can produce mistaken identifications with significant consequences. What can we do to make certain that eyewitness identification convicts the guilty and exonerates the innocent? Identifying the Culprit makes the case that better data collection and research on eyewitness identification, new law enforcement training protocols, standardized procedures for administering line-ups, and improvements in the handling of eyewitness identification in court can increase the chances that accurate identifications are made. This report explains the science that has emerged during the past 30 years on eyewitness identifications and identifies best practices in eyewitness procedures for the law enforcement community and in the presentation of eyewitness evidence in the courtroom. In order to continue the advancement of eyewitness identification research, the report recommends a focused research agenda. Identifying the Culprit will be an essential resource to assist the law enforcement and legal communities as they seek to understand the value and the limitations of eyewitness identification and make improvements to procedures.

Facilitating Interdisciplinary Research examines current interdisciplinary research efforts and recommends ways to stimulate and support such research. Advances in science and engineering increasingly require the collaboration of scholars from various fields. This shift is driven by the need to address complex problems that cut across traditional disciplines, and the capacity of new technologies to both transform existing disciplines and generate new ones. At the same time, however, interdisciplinary research can be impeded by policies on hiring, promotion, tenure, proposal review, and resource allocation that favor traditional disciplines. This report identifies steps that researchers, teachers, students, institutions, funding

organizations, and disciplinary societies can take to more effectively conduct, facilitate, and evaluate interdisciplinary research programs and projects. Throughout the report key concepts are illustrated with case studies and results of the committee's surveys of individual researchers and university provosts.

Tropical forests are an undervalued asset in meeting the greatest global challenges of our time—averting climate change and promoting development. Despite their importance, tropical forests and their ecosystems are being destroyed at a high and even increasing rate in most forest-rich countries. The good news is that the science, economics, and politics are aligned to support a major international effort over the next five years to reverse tropical deforestation. *Why Forests? Why Now?* synthesizes the latest evidence on the importance of tropical forests in a way that is accessible to anyone interested in climate change and development and to readers already familiar with the problem of deforestation. It makes the case to decisionmakers in rich countries that rewarding developing countries for protecting their forests is urgent, affordable, and achievable.

Hatten provides a balanced introduction to both entrepreneurship and small business management before turning his focus toward achieving and maintaining a sustainable competitive advantage as a small organization. Current issues including global opportunities, service, quality and technology are highlighted throughout the text, and the Third Edition features an increased emphasis on small business ownership by women and minority groups. Additional coverage is given to the new Small Business Administration size standards, creating a personalized business plan, and e-commerce. New! A full chapter is devoted to creating a business plan. Two complete plans written by undergraduate students appear in the text—one designed for a service business, the other for a retail establishment. Electronic Business Plan Templates are also available online. New! "What Would You Do" exercises provide realistic opportunities for students to think critically and realistically. New! "Profile in Entrepreneurship" boxes spotlight individuals who've created new products and businesses. New! Eduspace course management system. New! Coverage of small business ownership by women and minority groups has been increased throughout the text. New! End of chapter questions ("Comprehension Checks") have been added to each chapter. Author created supplements including the Instructors Resource Manual, Test Bank and PowerPoint slides, ensure seamless integration of the text and teaching resources. A shorter length accommodates one semester courses without sacrificing important topics.

In this open access publication it is shown, that sustainable low carbon development is a transformative process that constitutes the shifting from the initially chosen or taken pathway to another pathway as goals have been re-visited and revised to enable the system to adapt to changes. However, shifting entails transition costs that are accrued through the effects of lock-ins that have framed decisions and collective actions. The uncertainty about these costs can be overwhelming or even disruptive. This book aims to provide a comprehensive and integrated analytical framework that promotes the understanding of transformation towards sustainability. The analysis of this book is built upon negotiative perspectives to help define, design, and facilitate collective actions in order to execute the principles of sustainability. Dr Ariel Macaspac Hernandez is currently a researcher at the German Development Institute belonging to the research cluster knowledge cooperation and environmental governance. He was/is also a lecturer on negotiations, conflict and resource management, sustainability politics, environmental governance, climate change policies, development aid and sustainable energy systems in various universities in Germany, Philippines, Jamaica, Estonia, Spain and Mexico.

This textbook provides a comprehensive and state-of-the-art overview of the major issues specific to the field of pediatric gastroenterology, hepatology, and nutrition. The first part of the book, *Gastroenterology and Nutrition*, presents in a systematic way the overall scope of issues encountered by children (newborn to teenagers) suffering from disorders of the gastrointestinal tract, pancreas and/or presenting nutritional issues. These chapters are structured in logical sections to facilitate consultation and include major topics ranging from congenital disorders to gastrointestinal problems of the newborn, infectious diseases of the gastrointestinal tract, and approach to nutritional problems in the various pediatric ages. The second part of the book, *Hepatology*, is articulated in a series of chapters which present a comprehensive review of congenital and acquired disorders of the biliary tract and liver. This section also includes a critical analysis of available diagnostic and therapeutic procedures and future perspectives. Written by experts in the field, *Textbook of Pediatric Gastroenterology, Hepatology and Nutrition: A Comprehensive Guide to Practice* constitutes a much needed, innovative resource combining updated, reliable and comprehensive information with agile consultation for a streamlined approach to the care of children with such disorders.

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