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This is an introductory to intermediate level text on the science of image processing, which employs the Matlab programming language to illustrate some of the elementary, key concepts in modern image processing and pattern recognition. The approach taken is essentially practical and the book offers a framework within which the concepts can be understood by a series of well chosen examples, exercises and computer experiments, drawing on specific examples from within science, medicine and engineering. Clearly divided into eleven distinct chapters, the book begins with a fast-start introduction to image processing to enhance the accessibility of later topics. Subsequent chapters offer increasingly advanced discussion of topics involving more challenging concepts, with the final chapter looking at the application of automated image classification (with Matlab examples) . Matlab is frequently used in the book as a tool for demonstrations, conducting experiments and for solving problems, as it is both ideally suited to this role and is widely available. Prior experience of Matlab is not required and those without access to Matlab can still benefit from the independent presentation of topics and numerous examples. Features a companion website www.wiley.com/go/solomon/fundamentals containing a Matlab fast-start primer, further exercises, examples, instructor resources and accessibility to all files corresponding to the examples and exercises within the book itself. Includes numerous examples, graded exercises and computer experiments to support both students and instructors alike. Winner of American Library Association Schneider Family Book Award! Bobby Phillips is an average fifteen-year-old-boy. Until the morning he wakes up and can't see himself in the mirror. Not blind, not dreaming-Bobby is just plain invisible. There doesn't seem to be any rhyme or reason to Bobby's new condition; even his dad the physicist can't figure it out. For Bobby that means no school, no friends, no life. He's a missing person. Then he meets Alicia. She's blind, and Bobby can't resist talking to her, trusting her. But people are starting to wonder where Bobby is. Bobby knows that his invisibility could have dangerous consequences for his family and that time is running out. He has to find out how to be seen again-before it's too late.

This book deals with bioprocess engineering, which encompasses the design and development of equipment and processes for the manufacturing of products such as food, pharmaceuticals, chemicals, polymers and paper from biological materials. It also deals with studying various biotechnological processes used in industries for large scale production of biological products, for the optimization of yield. This work also incorporates significant treatment on biocatalysts and their applications in food industry, bioplastics production, conversion of agro waste and the importance

of biotechnology in bioprocessing. This is coupled with pertinent information related to environmental contaminants. The complete guide for how to design and conduct theory-testing and other case studies... Case Study Methodology in Business Research sets out structures and guidelines that assist students and researchers from a wide range of disciplines to develop their case study research in a consistent and rigorous manner. It clarifies the differences between practice-oriented and theory-oriented research and, within the latter category, between theory-testing and theory-building. It describes in detail how to design and conduct different types of case study research, providing students and researchers with everything they need for their project. The main aims are to: * present a broad spectrum of types of case study research (including practice-oriented case studies, theory-building case studies and theory-testing case studies) in one consistent methodological framework. * emphasize and clearly illustrate that the case study is the preferred research strategy for testing deterministic propositions such as those expressing a necessary condition case by case and that the survey is the preferred research strategy for testing probabilistic propositions. * stress the role of replication in all theory-testing research, irrespective of which research strategy is chosen for a specific test. * give more weight to the importance of theory-testing relative to theory-building. Case Study Methodology in Business Research is a clear, concise and comprehensive text for case study methodology. Templates are supplied for case study protocol and how to report a case study. A modular textbook primarily aimed at serving research methodology courses for final year undergraduate students and graduate students in Business Administration and Management, which is also useful as a handbook for researchers. Written by Jan Dul, Professor of Technology and Human Factors, RSM Erasmus University, Rotterdam and Tony Hak, Associate professor of Research Methodology, RSM Erasmus University, Rotterdam, in collaboration with other authors from RSM Erasmus University. * Provides students with everything needed to design and conduct a case study project * Templates are supplied clearly demonstrating case study protocol and how to report a case study * A highly accessible, concise and comprehensive text for Case Study methodology

This new edition introduces the key concepts of TQM in the education context, discusses organizational, leadership and teamwork issues, the tools and techniques of TQM, and will help educators develop a framework for management in their school.

The answer is root cause analysis, a process that allows you to find the cause of single events/problems in the workplace. The Root Cause Analysis Handbook presents a walkthrough example that illustrates the method and shows how to implement it. Because poor initial problem definition can (and often does) undermine the problem-solving process, Ammerman places special emphasis on this area to build a solid foundation for effective analysis. He also provides guidance on preparing the final report. The need for clear documentation on dealing with problems makes this book

especially valuable for quality managers, engineers, safety managers, and teams implementing the ISO or QS standards. Written in a simple, user-friendly style, you will grasp the core concepts quickly and begin applying them to your work. The emergence and refinement of techniques in molecular biology has changed our perceptions of medicine, agriculture and environmental management. Scientific breakthroughs in gene expression, protein engineering and cell fusion are being translated by a strengthening biotechnology industry into revolutionary new products and services. Many a student has been enticed by the promise of biotechnology and the excitement of being near the cutting edge of scientific advancement. However, graduates trained in molecular biology and cell manipulation soon realise that these techniques are only part of the picture. Reaping the full benefits of biotechnology requires manufacturing capability involving the large-scale processing of biological material. Increasingly, biotechnologists are being employed by companies to work in co-operation with chemical engineers to achieve pragmatic commercial goals. For many years aspects of biochemistry and molecular genetics have been included in chemical engineering curricula, yet there has been little attempt until recently to teach aspects of engineering applicable to process design to biotechnologists. This textbook is the first to present the principles of bioprocess engineering in a way that is accessible to biological scientists. Other texts on bioprocess engineering currently available assume that the reader already has engineering training. On the other hand, chemical engineering textbooks do not consider examples from bioprocessing, and are written almost exclusively with the petroleum and chemical industries in mind. This publication explains process analysis from an engineering point of view, but refers exclusively to the treatment of biological systems. Over 170 problems and worked examples encompass a wide range of applications, including recombinant cells, plant and animal cell cultures, immobilised catalysts as well as traditional fermentation systems. * * First book to present the principles of bioprocess engineering in a way that is accessible to biological scientists * Explains process analysis from an engineering point of view, but uses worked examples relating to biological systems * Comprehensive, single-authored * 170 problems and worked examples encompass a wide range of applications, involving recombinant plant and animal cell cultures, immobilized catalysts, and traditional fermentation systems * 13 chapters, organized according to engineering sub-disciplines, are grouped in four sections - Introduction, Material and Energy Balances, Physical Processes, and Reactions and Reactors * Each chapter includes a set of problems and exercises for the student, key references, and a list of suggestions for further reading * Includes useful appendices, detailing conversion factors, physical and chemical property data, steam tables, mathematical rules, and a list of symbols used * Suitable for course adoption - follows closely curricula used on most bioprocessing and process biotechnology courses at senior undergraduate and graduate levels.

Pictorial Atlas of Soil and Seed Fungi: Morphologies of Cultured Fungi and Key to Species, Third Edition describes and

illustrates more than 515 fungal species, including: 49 oomycetous species belonging to seven genera 42 zygomycetous species belonging to 12 genera 52 ascomycetous species belonging to 28 genera 42 basidiomycetous species belonging to

Exciting, hands-on approach to understanding fundamental underpinnings of modern arithmetic, algebra, geometry and number systems examines their origins in early Egyptian, Babylonian, and Greek sources.

Learn to fully harness the power of Microsoft Excel(r) to perform scientific and engineering calculations With this text as your guide, you can significantly enhance Microsoft Excel's(r) capabilities to execute the calculations needed to solve a variety of chemical, biochemical, physical, engineering, biological, and medicinal problems. The text begins with two chapters that introduce you to Excel's Visual Basic for Applications (VBA) programming language, which allows you to expand Excel's(r) capabilities, although you can still use the text without learning VBA. Following the author's step-by-step instructions, here are just a few of the calculations you learn to perform: * Use worksheet functions to work with matrices * Find roots of equations and solve systems of simultaneous equations * Solve ordinary differential equations and partial differential equations * Perform linear and non-linear regression * Use random numbers and the Monte Carlo method This text is loaded with examples ranging from very basic to highly sophisticated solutions. More than 100 end-of-chapter problems help you test and put your knowledge to practice solving real-world problems. Answers and explanatory notes for most of the problems are provided in an appendix. The CD-ROM that accompanies this text provides several useful features: * All the spreadsheets, charts, and VBA code needed to perform the examples from the text * Solutions to most of the end-of-chapter problems * An add-in workbook with more than twenty custom functions This text does not require any background in programming, so it is suitable for both undergraduate and graduate courses. Moreover, practitioners in science and engineering will find that this guide saves hours of time by enabling them to perform most of their calculations with one familiar spreadsheet package.

Do you love to read? Do you want to get your books free? Do you have a Kindle, Nook, ipad, laptop, or a desktop computer? You can get access too and read thousands of books any any of these devices. Amazon has a free app you can download and read for free. There are thousands of books for free on Amazon every day that can access. Where do you find the books you want to read? This book has the top sites listed to find the best free books for you to download and read. Books that you download from Amazon you get to keep, and they store them for you on their servers. You can read them again whenever you want, just download to your device again. Are you busy and want to save time? Time is something we are all concerned with, we never have enough time in our days to finish all the things we want to do. You could just go searching the Amazon website, but that could take you hours every day. I have put together a listing of the

easiest and fastest way to find quality free ebooks, mostly on Amazon, that will not take hours, it will only take you minutes every day. If you love to read and learn new and interesting information, or you just love to read for entertainment, you need this list to get the best books for free everyday. Download this book and start building your library today

With the global academic community currently focused on student learning outcomes achievement, assessment, and continuous improvement, e-learning strategies provide effective measures than can assist educators and educational administrators in the satisfaction of key objectives. Whether it is creating and incorporating simulations, building courses and curriculum, engaging in virtual team building, managing online programs, concept mapping, developing an electronic portfolio program, creating active training environments, determining the instructors role, problem solving, evaluating online learning, or using e-learning to build an effective assessment program this book will prove to be an indispensable resource. Geared towards administrators, key decision makers, educators experienced with e-learning, and instructional technology students, it marries the leading literature and prevailing ideologies with best practices illustrated by notable real-world examples.

A perennial bestseller by eminent mathematician G. Polya, *How to Solve It* will show anyone in any field how to think straight. In lucid and appealing prose, Polya reveals how the mathematical method of demonstrating a proof or finding an unknown can be of help in attacking any problem that can be "reasoned" out—from building a bridge to winning a game of anagrams. Generations of readers have relished Polya's deft—indeed, brilliant—instructions on stripping away irrelevancies and going straight to the heart of the problem.

PROMOTING PARTNERSHIP FOR HEALTH This book forms part of a series entitled *Promoting Partnership for Health* published in association with the UK Centre for the Advancement of Interprofessional Education (CAIPE). The series explores partnership for health from policy, practice and educational perspectives. Whilst strongly advocating the imperative driving collaboration in healthcare, it adopts a pragmatic approach. Far from accepting established ideas and approaches, the series alerts readers to the pitfalls and ways to avoid them. **DESCRIPTION** *Interprofessional Teamwork for Health and Social Care* is an invaluable guide for clinicians, academics, managers and policymakers who need to understand, implement and evaluate interprofessional teamwork. It will give them a fuller understanding of how teams function, of the issues relating to the evaluation of teamwork, and of approaches to creating and implementing interventions (e.g. team training, quality improvement initiatives) within health and social care settings. It will also raise awareness of the wide range of theories that can inform interprofessional teamwork. The book is divided into nine chapters. The first 'sets the scene' by outlining some common issues which underpin interprofessional teamwork, while

the second discusses current teamwork developments around the globe. Chapter 3 explores a range of team concepts, and Chapter 4 offers a new framework for understanding interprofessional teamwork. The next three chapters discuss how a range of range of social science theories, interventions and evaluation approaches can be employed to advance this field. Chapter 8 presents a synthesis of research into teams the authors have undertaken in Canada, South Africa and the UK, while the final chapter draws together key threads and offers ideas for future of teamwork. The book also provides a range of resources for designing, implementing and evaluating interprofessional teamwork activities.

A New York Times Bestseller A "page-turning thriller that will keep readers guessing until the very end" (School Library Journal) about a road trip in a snowstorm that turns into bone-chilling disaster, from New York Times bestselling mystery author and "master of tension" (BCCB) Natalie D. Richards. She thought being stranded was the worst thing that could happen. She was wrong. Mira needs to get home for the holidays. Badly. But when an incoming blizzard results in a canceled connecting flight, it looks like she might get stuck at the airport indefinitely. And then Harper, Mira's glamorous seatmate from her initial flight, offers her a ride. Harper and her three friends can drop Mira off on their way home. But as they set off, Mira realizes fellow travelers are all total strangers. And every one of them is hiding something. Soon, roads go from slippery to terrifying. People's belongings are mysteriously disappearing. Someone in the car is clearly lying, and may even be sabotaging the trip—but why? And can Mira make it home alive, or will this nightmare drive turn fatal? Perfect for readers who love: YA horror books for teens Mystery books for teens Natasha Preston, Megan Miranda, Karen McManus and Ruth Ware Praise for *Five Total Strangers*: "A twisty thrill ride that will leave you breathless. I stayed up after midnight just to see how it all ended."—April Henry, New York Times bestselling author of *Girl, Stolen* "Richards is a master of tension. Suspense fans will get all the ups-and-downs of a well-paced narrative, but they may never want to drive on a snowy road again."—BCCB "A page-turning thriller that will keep readers guessing until the very end. Just the kind of fun book one needs for a hot summer day or a cold winter's night."—School Library Journal on *Five Total Strangers* "High thrill factor."—Booklist Also by Natalie D. Richards: *Six Months Later* *Gone Too Far* *My Secret to Tell One Was Lost* *We All Fall Down* *What You Hide*

Projects that bring the 'hard' sciences into art are increasingly being exhibited in galleries and museums across the world. In a surge of publications on the subject, few focus on regions beyond Europe and the Anglophone world. *Decolonizing Science in Latin American Art* assembles a new corpus of art-science projects by Latin American artists, ranging from big-budget collaborations with NASA and MIT to homegrown experiments in artists' kitchens. While they draw on recent scientific research, these art projects also 'decolonize' science. If increasing knowledge of the natural world has often gone hand-in-hand with our objectification and exploitation of it, the artists studied here emphasize the

subjectivity and intelligence of other species, staging new forms of collaboration and co-creativity beyond the human. They design technologies that work with organic processes to promote the health of ecosystems, and seek alternatives to the logics of extractivism and monoculture farming that have caused extensive ecological damage in Latin America. They develop do-it-yourself, open-source, commons-based practices for sharing creative and intellectual property. They establish critical dialogues between Western science and indigenous thought, reconnecting a disembodied, abstracted form of knowledge with the cultural, social, spiritual, and ethical spheres of experience from which it has often been excluded. *Decolonizing Science in Latin American Art* interrogates how artistic practices may communicate, extend, supplement, and challenge scientific ideas. At the same time, it explores broader questions in the field of art, including the relationship between knowledge, care, and curation; nonhuman agency; art and utility; and changing approaches to participation. It also highlights important contributions by Latin American thinkers to themes of global significance, including the Anthropocene, climate change and environmental justice.

Human Hand Function is a multidisciplinary book that reviews the sensory and motor aspects of normal hand function from both neurophysiological and behavioral perspectives. Lynette Jones and Susan Lederman present hand function as a continuum ranging from activities that are essentially sensory in nature to those that have a strong motor component. They delineate four categories of function along this sensorimotor continuum--tactile sensing, active haptic sensing, prehension, and non-prehensile skilled movements--that they use as a framework for analyzing and synthesizing the results from a broad range of studies that have contributed to our understanding of how the normal human hand functions. The book begins with a historical overview of research on the hand and a discussion of the hand's evolutionary development in terms of anatomical structure. The subsequent chapters review the research in each of the four categories along the continuum, covering topics such as the intensive spatial, temporal, and thermal sensitivity of the hand, the role of hand movements in recognizing common objects, the control of reaching and grasping movements, and the organization of keyboard skills. Jones and Lederman also examine how sensory and motor function develops in the hand from birth to old age, and how the nature of the end effector (e.g., a single finger or the whole hand) that is used to interact with the environment influences the types of information obtained and the tasks performed. The book closes with an assessment of how basic research on the hand has contributed to an array of more applied domains, including communication systems for the blind, haptic interfaces used in teleoperation and virtual-environment applications, tests used to assess hand impairments, and haptic exploration in art. *Human Hand Function* will be a valuable resource for student and professional researchers in neuroscience, cognitive psychology, engineering, human-technology interaction, and physiology.

Explores sets and relations, the natural number sequence and its generalization, extension of natural numbers to real numbers, logic, informal axiomatic mathematics, Boolean algebras, informal axiomatic set theory, several algebraic theories, and 1st-order theories.

This book provides an overview of important trends and developments in logistics and supply chain research, making them available to practitioners, while also serving as a point of reference for academicians. Operations and logistics are cornerstones of modern supply chains that in turn are essential for global business and economics. The composition, character and importance of supply chains and networks are rapidly changing, due to technological innovations such as Information and Communication Technologies, Sensors and Robotics, Internet of Things, and Additive Manufacturing, to name a few (often referred to as Industry 4.0). Societal developments such as environmental consciousness, urbanization or the optimal use of scarce resources are also impacting how supply chain networks are configured and operated. As a result, future supply chains will not just be assessed in terms of cost-effectiveness and speed, but also the need to satisfy agility, resilience and sustainability requirements. To face these challenges, an understanding of the basic as well as more advanced concepts and recent innovations is essential in building competitive and sustainable supply chains and, as part of that, logistics and operations. These span multiple disciplines and geographies, making them interdisciplinary and international. Therefore, this book contains contributions and views from a variety of experts from multiple countries, and combines management, engineering as well as basic information technology and social concepts. In particular, it aims to: provide a comprehensive guide for all relevant and major logistics, operations, and supply chain management topics in teaching and business practice address three levels of expertise, i.e., concepts and principles at a basic (undergraduate, BS) level, more advanced topics at a graduate level (MS), and finally recent (state-of-the-art) developments at a research level. In particular the latter serve to present a window on current and future (potential) logistics innovations in the different thematic fields for both researchers and top business practitioners integrate a textbook approach with matching case studies for effective teaching and learning discuss multiple international perspectives in order to represent adequately the true global nature of operations, logistics and supply chains.

Philosophy for Linguists provides students with a clear, concise introduction to the main topics in the philosophy of language. Focusing on what students of linguistics need to know and how philosophy relates to modern linguistics, the book is structured around key branches of the field: semantics, pragmatics, and language acquisition. Assuming no prior knowledge of philosophy, Siobhan Chapman traces the history and development of ideas in the philosophy of language and outlines the contributions of specific philosophers. The book is highly accessible and student-oriented and includes: a general introduction and introductions to each chapter numerous examples and quotations comprehensive suggestions

for further reading an extensive glossary of linguistic terms.

A reference to more than six hundred minerals, with color photographs of each type and an explanation of their forms and properties.

Taken literally, the title "All of Statistics" is an exaggeration. But in spirit, the title is apt, as the book does cover a much broader range of topics than a typical introductory book on mathematical statistics. This book is for people who want to learn probability and statistics quickly. It is suitable for graduate or advanced undergraduate students in computer science, mathematics, statistics, and related disciplines. The book includes modern topics like non-parametric curve estimation, bootstrapping, and classification, topics that are usually relegated to follow-up courses. The reader is presumed to know calculus and a little linear algebra. No previous knowledge of probability and statistics is required. Statistics, data mining, and machine learning are all concerned with collecting and analysing data.

The Handbook of Water and Wastewater Treatment Plant Operations is the first thorough resource manual developed exclusively for water and wastewater plant operators. Now regarded as an industry standard, this fourth edition has been updated throughout, and explains the material in easy-to-understand language. It also provides real-world case studies and operating scenarios, as well as problem-solving practice sets for each scenario. Features: Updates the material to reflect the developments in the field Includes new math operations with solutions, as well as over 250 new sample questions Adds updated coverage of energy conservation measures with applicable case studies Enables users to properly operate water and wastewater plants and suggests troubleshooting procedures for returning a plant to optimum operation levels Prepares operators for licensure exams A complete compilation of water science, treatment information, process control procedures, problem-solving techniques, safety and health information, and administrative and technological trends, this text serves as a resource for professionals working in water and wastewater operations and operators preparing for wastewater licensure exams. It can also be used as a supplemental textbook for undergraduate and graduate students studying environmental science, water science, and environmental engineering.

Is there a way to get students to love math? Dr. Judy Willis responds with an emphatic yes in this informative guide to getting better results in math class. Tapping into abundant research on how the brain works, Willis presents a practical approach for how we can improve academic results by demonstrating certain behaviors and teaching students in a way that minimizes negativity. With a straightforward and accessible style, Willis shares the knowledge and experience she has gained through her dual careers as a math teacher and a neurologist. In addition to learning basic brain anatomy and function, readers will learn how to * Improve deep-seated negative attitudes toward math. * Plan lessons with the goal of "achievable challenge" in mind. * Reduce mistake anxiety with techniques such as errorless math and estimation. * Teach to different individual learning strengths and skill levels. *

Spark motivation. * Relate math to students' personal interests and goals. * Support students in setting short-term and long-term goals. * Convince students that they can change their intelligence. With dozens of strategies teachers can use right now, Learning to Love Math puts the power of research directly into the hands of educators. A Brain Owner's Manual, which dives deeper into the structure and function of the brain, is also included—providing a clear explanation of how memories are formed and how skills are learned. With informed teachers guiding them, students will discover that they can build a better brain . . . and learn to love math! Practical Induction Heat Treating, Second Edition is a quick reference source for induction heaters. This book ties-in the metallurgy, theory, and practice of induction heat treating from a hands-on explanation of what floor people need to know. This book includes practical tables and process analysis of induction heating.

'Supply Chain Management' illustrates the key drivers of good supply chain management in order to help students understand what creates a competitive advantage. It also provides strong coverage of analytic skills so that students can gauge the effectiveness of the techniques described.

The Human Respiratory System combines emerging ideas from biology and mathematics to show the reader how to produce models for the development of biomedical engineering applications associated with the lungs and airways. Mathematically mature but in its infancy as far as engineering uses are concerned, fractional calculus is the basis of the methods chosen for system analysis and modelling. This reflects two decades' worth of conceptual development which is now suitable for bringing to bear in biomedical engineering. The text reveals the latest trends in modelling and identification of human respiratory parameters with a view to developing diagnosis and monitoring technologies. Of special interest is the notion of fractal structure which is indicative of the large-scale biological efficiency of the pulmonary system. The related idea of fractal dimension represents the adaptations in fractal structure caused by environmental factors, notably including disease. These basics are linked to model the dynamical patterns of breathing as a whole. The ideas presented in the book are validated using real data generated from healthy subjects and respiratory patients and rest on non-invasive measurement methods. The Human Respiratory System will be of interest to applied mathematicians studying the modelling of biological systems, to clinicians with interests outside the traditional borders of medicine, and to engineers working with technologies of either direct medical significance or for mitigating changes in the respiratory system caused by, for example, high-altitude or deep-sea environments.

With its broad coverage of methodology, this comprehensive book is a useful learning and reference tool for those in applied sciences where analysis and research of time series is useful. Its plentiful examples show the operational details and purpose of a variety of univariate and multivariate time series methods. Numerous figures, tables and real-life time series data sets illustrate the models and methods useful for analyzing, modeling, and forecasting data collected sequentially in time. The text also offers a balanced treatment between theory and applications. Time Series Analysis is a thorough introduction to both time-domain and frequency-domain analyses of univariate and multivariate time series methods, with coverage of the most recently developed techniques in the field.

The book covers all the fundamentals of satellites, ground control systems, and earth stations, considering the design and operation of each major segment. You gain a practical understanding of the basic construction and usage of commercial satellite networks. How parts of a satellite system function, how various components interact, which role each component plays, and which factors are the most critical to success."

Healthy waterways and oceans are essential for our increasingly urbanised world. Yet monitoring water quality in aquatic environments is a challenge, as it varies from hour to hour due to stormwater and currents. Being at the base of the aquatic food web and present in huge numbers, plankton are strongly influenced by changes in environment and provide an indication of water quality integrated over days and weeks. Plankton are the aquatic version of a canary in a coal mine. They are also vital for our existence, providing not only food for fish, seabirds, seals and sharks, but producing oxygen, cycling nutrients, processing pollutants, and removing carbon dioxide from our atmosphere. This Second Edition of Plankton is a fully updated introduction to the biology, ecology and identification of plankton and their use in monitoring water quality. It includes expanded, illustrated descriptions of all major groups of freshwater, coastal and marine phytoplankton and zooplankton and a new chapter on teaching science using plankton. Best practice methods for plankton sampling and monitoring programs are presented using case studies, along with explanations of how to analyse and interpret sampling data. Plankton is an invaluable reference for teachers and students, environmental managers, ecologists, estuary and catchment management committees, and coastal engineers.

The theory of probability is a powerful tool that helps electrical and computer engineers to explain, model, analyze, and design the technology they develop. The text begins at the advanced undergraduate level, assuming only a modest knowledge of probability, and progresses through more complex topics mastered at graduate level. The first five chapters cover the basics of probability and both discrete and continuous random variables. The later chapters have a more specialized coverage, including random vectors, Gaussian random vectors, random processes, Markov Chains, and convergence. Describing tools and results that are used extensively in the field, this is more than a textbook; it is also a reference for researchers working in communications, signal processing, and computer network traffic analysis. With over 300 worked examples, some 800 homework problems, and sections for exam preparation, this is an essential companion for advanced undergraduate and graduate students. Further resources for this title, including solutions (for Instructors only), are available online at www.cambridge.org/9780521864701.

In the twenty-first century, educators around the world are being told that they need to transform education systems to adapt young people for the challenges of a global digital knowledge economy. Too rarely, however, do we ask whether this future vision is robust, achievable or even desirable, whether alternative futures might be in development, and what other possible futures might demand of education. Drawing on ten years of research into educational innovation and socio-technical change, working with educators, researchers, digital industries, students and policy-makers, this book questions taken-for-granted assumptions about the future of education. Arguing that we have been working with too narrow a vision of the future, Keri Facer makes a case for recognizing the challenges that the next two decades may bring, including: the emergence of new relationships between humans and technology the opportunities and challenges of aging populations the development of new forms of knowledge and democracy the challenges of climate warming and environmental disruption the potential for radical economic

and social inequalities. This book describes the potential for these developments to impact critical aspects of education – including adult-child relationships, social justice, curriculum design, community relationships and learning ecologies. Packed with examples from around the world and utilising vital research undertaken by the author while Research Director at the UK's Futurelab, the book helps to bring into focus the risks and opportunities for schools, students and societies over the coming two decades. It makes a powerful case for rethinking the relationship between education and social and technological change, and presents a set of key strategies for creating schools better able to meet the emerging needs of their students and communities. An important contribution to the debates surrounding educational futures, this book is compelling reading for all of those, including educators, researchers, policy-makers and students, who are asking the question 'how can education help us to build desirable futures for everyone in the context of social and technological change?'

This text makes use of contemporary work in linguistics to provide up-to-date commentary on the development of Latin, from its prehistoric origins in the Indo-European language family, through the earliest texts, to the creation of the Classical Language of Cicero and Vergil, and examines the impact of the spread of spoken Latin through the Roman Empire. The first book in English in more than 50 years to provide comprehensive coverage of the history of the Latin language Gives a full account of the transformation of the language in the context of the rise and fall of Ancient Rome Presents up-to-date commentary on the key linguistic issues Makes use of carefully selected texts, many of which have only recently come to light Includes maps and glossary as well as fully translated and annotated sample texts that illustrate the different stages of the language Accessible to readers without a formal knowledge of Latin or linguistics

"Chemistry is designed for the two-semester general chemistry course. For many students, this course provides the foundation to a career in chemistry, while for others, this may be their only college-level science course. As such, this textbook provides an important opportunity for students to learn the core concepts of chemistry and understand how those concepts apply to their lives and the world around them. The text has been developed to meet the scope and sequence of most general chemistry courses. At the same time, the book includes a number of innovative features designed to enhance student learning. A strength of Chemistry is that instructors can customize the book, adapting it to the approach that works best in their classroom."--Openstax College website.

"Just when you thought it couldn't get any better!" A new edition of the best-selling English File - the best way to get your students talking. A blend of completely new lessons, updated texts and activities, together with the refreshing and fine-tuning of some favourite lessons from New English File - English File third edition provides the right mix of language, motivation, and opportunity to get students talking. English File third edition offers more support for teachers and students. Teacher's Book provides over 100 photocopiables to save preparation time, plus extra tips and ideas. Classroom Presentation Tool brings your classroom to life with the Student's Book and Workbook, on-screen and interactive.

A gripping thriller from David Baldacci, *The Last Mile* is perfect for fans of Lee Child and James Patterson. Memories can be a real killer. Melvin Mars awaits his fate on Death Row. He was one of America's most promising football stars until, aged twenty, he was arrested and convicted for the murder of his parents just as he was due to begin a very lucrative contract with the NFL. When Amos Decker, newly appointed special agent with the FBI, hears the news that Melvin was saved in the final seconds before his execution because someone has confessed to the killings, he persuades his boss to allow him to carry out an investigation into the Mars murders. There are facts about the case which don't add up, and as the investigation deepens, Decker and his team uncover layer upon layer of lies and deception which are rooted at a time in American history which most would rather forget, but some seem keen to remember. There is someone out there with a lot

to hide, and a secret that everyone is looking for. A race against time ensues because, when revealed, that information threatens to tear apart the corridors of power at the very highest level. The case proves to be life-changing for both Mars and Decker in ways that neither could ever have imagined. The Last Mile is the second in the Amos Decker series, following Memory Man.

IF YOU ARE ABOUT TO DO A RESEARCH PROJECT, THEN THIS IS THE IDEAL GUIDE FOR YOU. A Gentle Guide to Research Methodsexplains what research is, andguides you through choosing and using the method best suited to yourneeds, with detailed examples from a wide range of disciplines. It alsogives you practical nuts and bolts advice about how to avoid classicproblems and how to get the most out of your project. Written in a down-to-earth and highly accessible style, this unique bookprovides an overview of the big picture of research and of how this linksto practical details. It covers the whole process of conducting research,including: Choosing a research topic and research design Data collection methods Data analysis and statistics Writing up The authors also provide invaluable advice about planning your researchso that it can help you with your career plans and life aspirations. Drawing on numerous examples from student projects,A Gentle Guideto Research Methodswill guide you through your project towards ahappy ending.

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