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The Mathematical Theory of Communication Claude E Shannon 1998-09-01 Scientific knowledge grows at a phenomenal pace--but few books have had as lasting an impact or played as important a role in our modern world as The Mathematical Theory of Communication, published originally as a paper on communication theory more than fifty years ago. Republished in book form shortly thereafter, it has since gone through four hardcover and sixteen paperback printings. It is a revolutionary work, astounding in its foresight and contemporaneity. The University of Illinois Press is pleased and honored to issue this commemorative reprinting of a classic.

Engineering Fundamentals: An Introduction to Engineering, SI Edition Saeed Moaveni 2011-01-01 Specifically designed as an introduction to the exciting world of engineering, ENGINEERING FUNDAMENTALS: AN INTRODUCTION TO ENGINEERING encourages students to become engineers and prepares them with a solid foundation in the fundamental principles and physical laws. The book begins with a discovery of what engineers do as well as an inside look into the various areas of specialization. An explanation on good study habits and what it takes to succeed is included as well as an introduction to design and problem solving, communication, and ethics. Once this foundation is established, the book moves on to the basic physical concepts and laws that students will encounter regularly. The framework of this text teaches students that engineers apply physical and chemical laws and principles as well as mathematics to design, test, and supervise the production of millions of parts, products, and services that people use every day. By gaining problem solving skills and an understanding of fundamental principles, students are on their way to becoming analytical, detail-oriented, and creative engineers. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Introduction to Applied Linear Algebra Stephen Boyd 2018-06-07 A groundbreaking introduction to vectors, matrices, and least squares for engineering applications, offering a wealth of practical examples.

Army Barracks Management Program Handbook Department of Department of Defense 2018-01-09 Army Barracks Management Program (ABMP) Handbook describes the management of Unaccompanied Housing to support the needs of unaccompanied soldiers based on lessons learned and provides a uniform standard based on the needs of the Army and its soldiers. The ABMP supports the forming of adaptive partnerships between garrison staff and military unit leaders and capitalizes on the increased presence of military leaders at installations by emphasizing the unit's responsibility for the day-to-day management of permanent party barracks to enable leaders to effectively monitor the morale, health, welfare and discipline of their soldiers. Why buy a book you can download for free? We print this book so you don't have to. First you gotta find a good clean (legible) copy and make sure it's the latest version (not always easy). Some documents found on the web are missing some pages or the image quality is so poor, they are difficult to read. We look over each document carefully and replace poor quality images by going back to the original source document. We proof each document to make sure it's all there - including all changes. If you find a good copy, you could print it using a network printer you share with 100 other people (typically its either out of paper or toner). If it's just a 10-page document, no problem, but if it's 250-pages, you will need to punch 3 holes in all those pages and put it in a 3-ring binder. Takes at least an hour. It's much more cost-effective to just order the latest version from Amazon.com This book includes original commentary which is copyright material. Note that government documents are in the public domain. We print these large documents as a service so you don't have to. The books are compact, tightly-bound, full-size (8 1⌷2 by 11 inches), with large text and glossy covers. 4th Watch Publishing Co. is a SDVOSB. If you like the service we provide, please leave positive review on Amazon.com. Without positive feedback from the community, we may discontinue the service and y'all can go back to printing these books manually yourselves. For more titles, visit www.usgovpub.com

Introduction to Materials Management J. R. Tony Arnold 2001 This introductory textbook describes the basics of supply chain management, manufacturing planning and control systems, purchasing, and physical distribution. The fourth edition makes additions in kanban, supply chain concepts, system selection, theory of constraints and drum-buffer-rope, and need f

Introduction to High Performance Computing for Scientists and Engineers Georg Hager 2010-07-02 Written by high performance computing (HPC) experts, Introduction to High Performance Computing for Scientists and Engineers provides a solid introduction to current mainstream computer architecture, dominant parallel programming models, and useful optimization strategies for scientific HPC. From working in a scientific computing center, the author

Erosion and Sediment Control Handbook Perry Y. Amimoto 1978

A HEAT TRANSFER TEXTBOOK John H. Lienhard 2004

The Number Sense Stanislas Dehaene 2011-04-29 "Our understanding of how the

human brain performs mathematical calculations is far from complete. In The Number Sense, Stanislas Dehaene offers readers an enlightening exploration of the mathematical mind. Using research showing that human infants have a rudimentary number sense, Dehaene suggests that this sense is as basic as our perception of color, and that it is wired into the brain. But how then did we leap from this basic number ability to trigonometry, calculus, and beyond? Dehaene shows that it was the invention of symbolic systems of numerals that started us on the climb to higher mathematics. Tracing the history of numbers, we learn that in early times, people indicated numbers by pointing to part of their bodies, and how Roman numerals were replaced by modern numbers. On the way, we also discover many fascinating facts: for example, because Chinese names for numbers are short, Chinese people can remember up to nine or ten digits at a time, while English-speaking people can only remember seven. A fascinating look at the crossroads where numbers and neurons intersect, The Number Sense offers an intriguing tour of how the structure of the brain shapes our mathematical abilities, and how math can open up a window on the human mind"--Provided by publisher.

Reinforcement Learning, second edition Richard S. Sutton 2018-11-13 The significantly expanded and updated new edition of a widely used text on reinforcement learning, one of the most active research areas in artificial intelligence. Reinforcement learning, one of the most active research areas in artificial intelligence, is a computational approach to learning whereby an agent tries to maximize the total amount of reward it receives while interacting with a complex, uncertain environment. In Reinforcement Learning, Richard Sutton and Andrew Barto provide a clear and simple account of the field's key ideas and algorithms. This second edition has been significantly expanded and updated, presenting new topics and updating coverage of other topics. Like the first edition, this second edition focuses on core online learning algorithms, with the more mathematical material set off in shaded boxes. Part I covers as much of reinforcement learning as possible without going beyond the tabular case for which exact solutions can be found. Many algorithms presented in this part are new to the second edition, including UCB, Expected Sarsa, and Double Learning. Part II extends these ideas to function approximation, with new sections on such topics as artificial neural networks and the Fourier basis, and offers expanded treatment of off-policy learning and policy-gradient methods. Part III has new chapters on reinforcement learning's relationships to psychology and neuroscience, as well as an updated case-studies chapter including AlphaGo and AlphaGo Zero, Atari game playing, and IBM Watson's wagering strategy. The final chapter discusses the future societal impacts of reinforcement learning.

Is That a Fish in Your Ear? David Bellos 2011-10-11 A New York Times Notable Book for 2011 One of The Economist's 2011 Books of the Year People speak different languages, and always have. The Ancient Greeks took no notice of anything unless it was said in Greek; the Romans made everyone speak Latin; and in India, people learned their neighbors' languages—as did many ordinary Europeans in times past (Christopher Columbus knew Italian, Portuguese, and

Castilian Spanish as well as the classical languages). But today, we all use translation to cope with the diversity of languages. Without translation there would be no world news, not much of a reading list in any subject at college, no repair manuals for cars or planes; we wouldn't even be able to put together flat-pack furniture. Is That a Fish in Your Ear? ranges across the whole of human experience, from foreign films to philosophy, to show why translation is at the heart of what we do and who we are. Among many other things, David Bellos asks: What's the difference between translating unprepared natural speech and translating Madame Bovary? How do you translate a joke? What's the difference between a native tongue and a learned one? Can you translate between any pair of languages, or only between some? What really goes on when world leaders speak at the UN? Can machines ever replace human translators, and if not, why? But the biggest question Bellos asks is this: How do we ever really know that we've understood what anybody else says—in our own language or in another? Surprising, witty, and written with great joie de vivre, this book is all about how we comprehend other people and shows us how, ultimately, translation is another name for the human condition.

Why Knowledge Matters E. D. Hirsch 2019-01-02 In Why Knowledge Matters, influential scholar E. D. Hirsch, Jr., addresses critical issues in contemporary education reform and shows how cherished truisms about education and child development have led to unintended and negative consequences. Hirsch, author of The Knowledge Deficit, draws on recent findings in neuroscience and data from France to provide new evidence for the argument that a carefully planned, knowledge-based elementary curriculum is essential to providing the foundations for children's life success and ensuring equal opportunity for students of all backgrounds. In the absence of a clear, common curriculum, Hirsch contends that tests are reduced to measuring skills rather than content, and that students from disadvantaged backgrounds cannot develop the knowledge base to support high achievement. Hirsch advocates for updated policies based on a set of ideas that are consistent with current cognitive science, developmental psychology, and social science. The book focuses on six persistent problems of recent US education: the over-testing of students; the scapegoating of teachers; the fadeout of preschool gains; the narrowing of the curriculum; the continued achievement gap between demographic groups; and the reliance on standards that are not linked to a rigorous curriculum. Hirsch examines evidence from the United States and other nations that a coherent, knowledge-based approach to schooling has improved both achievement and equity wherever it has been instituted, supporting the argument that the most significant education reform and force for equality of opportunity and greater social cohesion is the reform of fundamental educational ideas. Why Knowledge Matters introduces a new generation of American educators to Hirsch's astute and passionate analysis.

PISA for Development Assessment and Analytical Framework Reading, Mathematics and Science OECD 2018-09-25 "What is important for citizens to know and be able to do?" The OECD Programme for International Student Assessment (PISA) seeks to answer that question through the most comprehensive and rigorous international

assessment of student knowledge and skills. As more countries join its ranks, PISA ...

The President and Immigration Law Adam B. Cox 2020-08-04 Who controls American immigration policy? The biggest immigration controversies of the last decade have all involved policies produced by the President policies such as President Obama's decision to protect Dreamers from deportation and President Trump's proclamation banning immigrants from several majority-Muslim nations. While critics of these policies have been separated by a vast ideological chasm, their broadsides have embodied the same widely shared belief: that Congress, not the President, ought to dictate who may come to the United States and who will be forced to leave. This belief is a myth. In The President and Immigration Law, Adam B. Cox and Cristina M. Rodríguez chronicle the untold story of how, over the course of two centuries, the President became our immigration policymaker-in-chief. Diving deep into the history of American immigration policy from founding-era disputes over deporting sympathizers with France to contemporary debates about asylum-seekers at the Southern border they show how migration crises, real or imagined, have empowered presidents. Far more importantly, they also uncover how the Executive's ordinary power to decide when to enforce the law, and against whom, has become an extraordinarily powerful vehicle for making immigration policy. This pathbreaking account helps us understand how the United States ?has come to run an enormous shadow immigration system-one in which nearly half of all noncitizens in the country are living in violation of the law. It also provides a blueprint for reform, one that accepts rather than laments the role the President plays in shaping the national community, while also outlining strategies to curb the abuse of law enforcement authority in immigration and beyond.

Fundamentals of Machine Component Design Robert C. Juvinall 2020-06-23 Fundamentals of Machine Component Design presents a thorough introduction to the concepts and methods essential to mechanical engineering design, analysis, and application. In-depth coverage of major topics, including free body diagrams, force flow concepts, failure theories, and fatigue design, are coupled with specific applications to bearings, springs, brakes, clutches, fasteners, and more for a real-world functional body of knowledge. Critical thinking and problem-solving skills are strengthened through a graphical procedural framework, enabling the effective identification of problems and clear presentation of solutions. Solidly focused on practical applications of fundamental theory, this text helps students develop the ability to conceptualize designs, interpret test results, and facilitate improvement. Clear presentation reinforces central ideas with multiple case studies, in-class exercises, homework problems, computer software data sets, and access to supplemental internet resources, while appendices provide extensive reference material on processing methods, joinability, failure modes, and material properties to aid student comprehension and encourage self-study.

Common European Framework of Reference for Languages: Learning, Teaching, assessment Council of Europe 2020-05-05 The CEFR Companion volume broadens the

scope of language education. It reflects academic and societal developments since the publication of the Common European Framework of Reference for Languages (CEFR) and updates the 2001 version. It owes much to the contributions of members of the language teaching profession across Europe and beyond. This volume contains: ► an explanation of the key aspects of the CEFR for teaching and learning; ► a complete set of updated CEFR descriptors that replaces the 2001 set with: - modality-inclusive and gender-neutral descriptors; - added detail on listening and reading; - a new Pre–A1 level, plus enriched description at A1 and C levels; - a replacement scale for phonological competence; - new scales for mediation, online interaction and plurilingual/pluricultural competence; - new scales for sign language competence; ► a short report on the four-year development, validation and consultation processes. The CEFR Companion volume represents another step in a process of engagement with language education that has been pursued by the Council of Europe since 1971 and which seeks to: ► promote and support the learning and teaching of modern languages; ► enhance intercultural dialogue, and thus mutual understanding, social cohesion and democracy; ► protect linguistic and cultural diversity in Europe; and ► promote the right to quality education for all.

Imperial Leather Anne Mcclintock 2013-10-01 Imperial Leather chronicles the dangerous liaisons between gender, race and class that shaped British imperialism and its bloody dismantling. Spanning the century between Victorian Britain and the current struggle for power in South Africa, the book takes up the complex relationships between race and sexuality, fetishism and money, gender and violence, domesticity and the imperial market, and the gendering of nationalism within the zones of imperial and anti-imperial power.

IBM Power 520 Technical Overview Scott Vetter 2010-04-02 This IBM Redpaper publication is a comprehensive guide covering the IBM Power 520 server, machine type model 8203-E4A. The goal of this paper is to introduce this innovative server that includes IBM System i and IBM System p and new hardware technologies. The major hardware offerings include: - The POWER6 processor, available at frequencies of 4.2 GHz and 4.7 GHz. - Specialized POWER6 DDR2 memory that provides greater bandwidth, capacity, and reliability. - The 1 Gb or 10 Gb Integrated Virtual Ethernet adapter that brings native hardware virtualization to this server. - EnergyScale technology that provides features such as power trending, power-saving, capping of power, and thermal measurement. - PowerVM virtualization technology. - Mainframe continuous availability brought to the entry server environment. This Redpaper expands the current set of IBM Power System documentation by providing a desktop reference that offers a detailed technical description of the Power 520 system. This Redpaper does not replace the latest marketing materials and tools. It is intended as an additional source of information that, together with existing sources, can be used to enhance your knowledge of IBM server solutions.

Machine Component Design Robert C. Juvinall 2013

Roadside Design Guide American Association of State Highway and Transportation Officials. Task Force for Roadside Safety 1989

3D Math Primer for Graphics and Game Development, 2nd Edition Fletcher Dunn 2011-11-02 This engaging book presents the essential mathematics needed to describe, simulate, and render a 3D world. Reflecting both academic and in-the-trenches practical experience, the authors teach you how to describe objects and their positions, orientations, and trajectories in 3D using mathematics. The text provides an introduction to mathematics for game designers, including the fundamentals of coordinate spaces, vectors, and matrices. It also covers orientation in three dimensions, calculus and dynamics, graphics, and parametric curves.

From Puritanism to Postmodernism Richard Ruland 2016-04-14 Widely acknowledged as a contemporary classic that has introduced thousands of readers to American literature, From Puritanism to Postmodernism: A History of American Literature brilliantly charts the fascinating story of American literature from the Puritan legacy to the advent of postmodernism. From realism and romanticism to modernism and postmodernism it examines and reflects on the work of a rich panoply of writers, including Poe, Melville, Fitzgerald, Pound, Wallace Stevens, Gwendolyn Brooks and Thomas Pynchon. Characterised throughout by a vibrant and engaging style it is a superb introduction to American literature, placing it thoughtfully in its rich social, ideological and historical context. A tour de force of both literary and historical writing, this Routledge Classics edition includes a new preface by co-author Richard Ruland, a new foreword by Linda Wagner-Martin and a fascinating interview with Richard Ruland, in which he reflects on the nature of American fiction and his collaboration with Malclolm Bradbury. It is published here for the first time.

Giant Molecules A. I?U. Grosberg 2011 ?? Giant molecules are important in our everyday life. But, as pointed out by the authors, they are also associated with a culture. What Bach did with the harpsichord, Kuhn and Flory did with polymers. We owe a lot of thanks to those who now make this music accessible ??Pierre-Gilles de GennesNobel Prize laureate in Physics(Foreword for the 1st Edition, March 1996)This book describes the basic facts, concepts and ideas of polymer physics in simple, yet scientifically accurate, terms. In both scientific and historic contexts, the book shows how the subject of polymers is fascinating, as it is behind most of the wonders of living cell machinery as well as most of the newly developed materials. No mathematics is used in the book beyond modest high school algebra and a bit of freshman calculus, yet very sophisticated concepts are introduced and explained, ranging from scaling and reptations to protein folding and evolution. The new edition includes an extended section on polymer preparation methods, discusses knots formed by molecular filaments, and presents new and updated materials on such contemporary topics as single molecule experiments with DNA or polymer properties of proteins and their roles in biological evolution.

Subsystem and Transaction Monitoring and Tuning with DB2 11 for z/OS Paolo

Bruni 2015-07-29 This IBM® Redbooks® publication discusses in detail the facilities of DB2® for z/OS®, which allow complete monitoring of a DB2 environment. It focuses on the use of the DB2 instrumentation facility component (IFC) to provide monitoring of DB2 data and events and includes suggestions for related tuning. We discuss the collection of statistics for the verification of performance of the various components of the DB2 system and accounting for tracking the behavior of the applications. We have intentionally omitted considerations for query optimization; they are worth a separate document. Use this book to activate the right traces to help you monitor the performance of your DB2 system and to tune the various aspects of subsystem and application performance.

Cavitation and Bubble Dynamics Christopher E. Brennen 2014 Cavitation and Bubble Dynamics deals with fundamental physical processes of bubble dynamics and cavitation for graduate students and researchers.

Solutions Manual to Accompany Fundamentals of Engineering Thermodynamics John R. Howell 1987

Optimal Transport for Applied Mathematicians Filippo Santambrogio 2015-10-17 This monograph presents a rigorous mathematical introduction to optimal transport as a variational problem, its use in modeling various phenomena, and its connections with partial differential equations. Its main goal is to provide the reader with the techniques necessary to understand the current research in optimal transport and the tools which are most useful for its applications. Full proofs are used to illustrate mathematical concepts and each chapter includes a section that discusses applications of optimal transport to various areas, such as economics, finance, potential games, image processing and fluid dynamics. Several topics are covered that have never been previously in books on this subject, such as the Knothe transport, the properties of functionals on measures, the Dacorogna-Moser flow, the formulation through minimal flows with prescribed divergence formulation, the case of the supremal cost, and the most classical numerical methods. Graduate students and researchers in both pure and applied mathematics interested in the problems and applications of optimal transport will find this to be an invaluable resource.

Physics for Scientists and Engineers, Volume 2 Raymond A. Serway 2013-01-01 Achieve success in your physics course by making the most of what PHYSICS FOR SCIENTISTS AND ENGINEERS has to offer. From a host of in-text features to a range of outstanding technology resources, you'll have everything you need to understand the natural forces and principles of physics. Throughout every chapter, the authors have built in a wide range of examples, exercises, and illustrations that will help you understand the laws of physics AND succeed in your course! Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Transforming the Workforce for Children Birth Through Age 8 National Research Council 2015-07-23 Children are already learning at birth, and they develop and

Children are already learning at birth, and they develop and

learn at a rapid pace in their early years. This provides a critical foundation for lifelong progress, and the adults who provide for the care and the education of young children bear a great responsibility for their health, development, and learning. Despite the fact that they share the same objective - to nurture young children and secure their future success - the various practitioners who contribute to the care and the education of children from birth through age 8 are not acknowledged as a workforce unified by the common knowledge and competencies needed to do their jobs well. Transforming the Workforce for Children Birth Through Age 8 explores the science of child development, particularly looking at implications for the professionals who work with children. This report examines the current capacities and practices of the workforce, the settings in which they work, the policies and infrastructure that set qualifications and provide professional learning, and the government agencies and other funders who support and oversee these systems. This book then makes recommendations to improve the quality of professional practice and the practice environment for care and education professionals. These detailed recommendations create a blueprint for action that builds on a unifying foundation of child development and early learning, shared knowledge and competencies for care and education professionals, and principles for effective professional learning. Young children thrive and learn best when they have secure, positive relationships with adults who are knowledgeable about how to support their development and learning and are responsive to their individual progress. Transforming the Workforce for Children Birth Through Age 8 offers guidance on system changes to improve the quality of professional practice, specific actions to improve professional learning systems and workforce development, and research to continue to build the knowledge base in ways that will directly advance and inform future actions. The recommendations of this book provide an opportunity to improve the quality of the care and the education that children receive, and ultimately improve outcomes for children.

FCS Marketing L4 2009

Engineering a Compiler Keith Cooper 2011-01-18 This entirely revised second edition of Engineering a Compiler is full of technical updates and new material covering the latest developments in compiler technology. In this comprehensive text you will learn important techniques for constructing a modern compiler. Leading educators and researchers Keith Cooper and Linda Torczon combine basic principles with pragmatic insights from their experience building state-of-the-art compilers. They will help you fully understand important techniques such as compilation of imperative and object-oriented languages, construction of static single assignment forms, instruction scheduling, and graph-coloring register allocation. In-depth treatment of algorithms and techniques used in the front end of a modern compiler Focus on code optimization and code generation, the primary areas of recent research and development Improvements in presentation including conceptual overviews for each chapter, summaries and review questions for sections, and prominent placement of definitions for new terms Examples drawn from several different programming languages

Fabrication and Welding Engineering Roger Timings 2008 Covers basic sheet-metal fabrication and welding engineering principles and applications. This title includes chapters on non-technical but essential subjects such as health and safety, personal development and communication of technical information. It contains illustrations that demonstrate the practical application of the procedures described.

Computer Organization and Design John L. Hennessy 1998 The performance of software systems is dramatically affected by how well software designers understand the basic hardware technologies at work in a system. Similarly, hardware designers must understand the far-reaching effects their design decisions have on software applications. For readers in either category, this classic introduction to the field provides a look deep into the computer. It demonstrates the relationships between the software and hardware and focuses on the foundational concepts that are the basis for current computer design.

In the Matter of Josef Mengele Neal M. Sher 1992

Computer Vision Richard Szeliski 2010-09-30 Computer Vision: Algorithms and Applications explores the variety of techniques commonly used to analyze and interpret images. It also describes challenging real-world applications where vision is being successfully used, both for specialized applications such as medical imaging, and for fun, consumer-level tasks such as image editing and stitching, which students can apply to their own personal photos and videos. More than just a source of "recipes," this exceptionally authoritative and comprehensive textbook/reference also takes a scientific approach to basic vision problems, formulating physical models of the imaging process before inverting them to produce descriptions of a scene. These problems are also analyzed using statistical models and solved using rigorous engineering techniques. Topics and features: structured to support active curricula and project-oriented courses, with tips in the Introduction for using the book in a variety of customized courses; presents exercises at the end of each chapter with a heavy emphasis on testing algorithms and containing numerous suggestions for small mid-term projects; provides additional material and more detailed mathematical topics in the Appendices, which cover linear algebra, numerical techniques, and Bayesian estimation theory; suggests additional reading at the end of each chapter, including the latest research in each sub-field, in addition to a full Bibliography at the end of the book; supplies supplementary course material for students at the associated website, http://szeliski.org/Book/. Suitable for an upper-level undergraduate or graduate-level course in computer science or engineering, this textbook focuses on basic techniques that work under real-world conditions and encourages students to push their creative boundaries. Its design and exposition also make it eminently suitable as a unique reference to the fundamental techniques and current research literature in computer vision.

Information Theory, Inference and Learning Algorithms David J. C. MacKay 2003-09-25 Table of contents

Ergonomics in the Automotive Design Process Vivek D. Bhise 2016-04-19 The auto industry is facing tough competition and severe economic constraints. Their products need to be designed "right the first time" with the right combinations of features that not only satisfy the customers but continually please and delight them by providing increased functionality, comfort, convenience, safety, and craftsmanship. Based on t

Materials Selection in Mechanical Design M. F. Ashby 1992-01-01 New materials enable advances in engineering design. This book describes a procedure for material selection in mechanical design, allowing the most suitable materials for a given application to be identified from the full range of materials and section shapes available. A novel approach is adopted not found elsewhere. Materials are introduced through their properties; materials selection charts (a new development) capture the important features of all materials, allowing rapid retrieval of information and application of selection techniques. Merit indices, combined with charts, allow optimisation of the materials selection process. Sources of material property data are reviewed and approaches to their use are given. Material processing and its influence on the design are discussed. The book closes with chapters on aesthetics and industrial design. Case studies are developed as a method of illustrating the procedure and as a way of developing the ideas further.

Introduction to Policing Steven M. Cox 2015-12-31 Introduction to Policing, Third Edition continues to focus on the thought-provoking, contemporary issues that underscore the challenging and rewarding world of policing. Steven M. Cox, Susan Marchionna, and experienced law enforcement officer Brian D. Fitch balance theory, research, and practice to give students a comprehensive, yet concise, overview of both the foundations of policing and the expanded role of today's police officers. The accessible and engaging writing style, combined with stories from the field, make policing concepts and practices easy for students to understand and analyze. Unique coverage of policing in multicultural communities, the impact of technology on policing, and extensive coverage of policing strategies and procedures — such as those that detail the use of force —make this bestselling book a must-have for policing courses.

Modern Coding Theory Tom Richardson 2008-03-17 Having trouble deciding which coding scheme to employ, how to design a new scheme, or how to improve an existing system? This summary of the state-of-the-art in iterative coding makes this decision more straightforward. With emphasis on the underlying theory, techniques to analyse and design practical iterative coding systems are presented. Using Gallager's original ensemble of LDPC codes, the basic concepts are extended for several general codes, including the practically important class of turbo codes. The simplicity of the binary erasure channel is exploited to develop analytical techniques and intuition, which are then applied to general channel models. A chapter on factor graphs helps to unify the important topics of information theory, coding and communication theory. Covering the most recent advances, this text is ideal for graduate students in electrical engineering and computer science, and practitioners. Additional resources,

including instructor's solutions and figures, available online:
www.cambridge.org/9780521852296.