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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. For more than 40 years, *Computerworld* has been the leading source of technology news and information for IT influencers worldwide. *Computerworld's* award-winning Web site ([Computerworld.com](#)), twice-monthly publication, focused conference series and custom research form the hub of the world's largest global IT media network. *Semiconducting III-V Compounds* deals with the properties of III-V compounds as a family of semiconducting crystals and relates these compounds to the monatomic semiconductors silicon and germanium. Emphasis is placed on physical processes that are peculiar to III-V compounds, particularly those that combine boron, aluminum, gallium, and indium with phosphorus, arsenic, and antimony (for example, indium antimonide, indium arsenide, gallium antimonide, and gallium arsenide). Comprised of eight chapters, this book begins with an assessment of the crystal structure and binding of III-V compounds, focusing on the properties of the zinc-blende structure as well as processes ranging from ionicity and infrared lattice absorption to electronegativity. The reader is then introduced to the band structure of III-V compounds and its theoretical aspects, along with cyclotron resonance and the diamagnetic Landau effect. Subsequent chapters discuss impurities and defects; optical and electrical properties; photoelectric effects; and preparation and applications of III-V compounds. This monograph will be of interest to physicists. *Computational Methods in Optimization* *The Manual of Engineering Drawing* has long been recognised as the student and practising engineer's guide to producing engineering drawings that comply with ISO and British Standards. The information in this book is equally applicable to any CAD application or manual drawing. The second edition is fully in line with the requirements of the new British Standard BS8888: 2002, and will help engineers, lecturers and students with the transition to the new standards. BS8888 is fully based on the relevant ISO standards, so this book is

also ideal for an international readership. The comprehensive scope of this book encompasses topics including orthographic, isometric and oblique projections, electric and hydraulic diagrams, welding and adhesive symbols, and guidance on tolerancing. Written by a member of the ISO committee and a former college lecturer, the Manual of Engineering Drawing combines up-to-the-minute technical accuracy with clear, readable explanations and numerous diagrams. This approach makes this an ideal student text for vocational courses in engineering drawing and undergraduates studying engineering design / product design. Colin Simmons is a member of the BSI and ISO Draughting Committees and an Engineering Standards Consultant. He was formerly Standards Engineer at Lucas CAV. \* Fully in line with the latest ISO Standards \* A textbook and reference guide for students and engineers involved in design engineering and product design \* Written by a former lecturer and a current member of the relevant standards committees

A groundbreaking introduction to vectors, matrices, and least squares for engineering applications, offering a wealth of practical examples. Gaseous Electronics and Gas Lasers deals with the fundamental principles and methods of analysis of weakly ionized gas discharges and gas lasers. The emphasis is on processes occurring in gas discharges and the analytical methods used to calculate important process rates. Detailed analyses of a variety of gas discharges are presented using atomic, ionic, and gas lasers as primary illustrations. Comprised of 12 chapters, this book begins with some initial categorization of gas discharge species and an overview of their interactions. The discussion then turns to an elementary theory of a gas discharge; inelastic collisions; distribution functions and the Boltzmann equation; and transport coefficients. Subsequent chapters focus on the fluid equations; electron-density decay processes; excited species; atomic neutral gas lasers; molecular gas lasers; and ion lasers. The important electron loss processes that determine the behavior of a plasma when the source and loss terms balance are also examined. This monograph will be of value to graduate students, practitioners, and researchers in the fields of physics and engineering, as well as to professionals interested in working with weakly ionized discharges.

The Industrial Electronics Handbook, Second Edition combines traditional and newer, more specialized knowledge that will help industrial electronics engineers develop practical solutions for the design and implementation of high-power applications. Embracing the broad technological scope of the field, this collection explores fundamental areas, including analog and digital circuits, electronics, electromagnetic machines, signal processing, and industrial control and communications systems. It also facilitates the use of intelligent systems--such as neural networks, fuzzy systems, and evolutionary methods--in terms of a hierarchical structure that makes factory control and supervision more efficient by addressing the needs of all production components. Enhancing its value, this fully updated collection presents research and global trends as published in the IEEE Transactions on Industrial Electronics Journal, one of the largest and most respected publications in the field.

Fundamentals of Industrial Electronics covers the essential areas that form the basis for the field. This volume presents the basic knowledge that can be applied to the other sections of the handbook. Topics covered include: Circuits and signals Devices Digital circuits Digital and analog signal processing Electromagnetics Other volumes in the set: Power Electronics and Motor Drives Control and Mechatronics Industrial Communication Systems Intelligent Systems

'Many books on management are sanitized, cleanly technical accounts of the unreality of managerial life and work. Politics hardly feature. This book tells it like it is: it dishes the dirt, gets low-down, into the funky and fascinating politics of organizational life' - Stewart Clegg, Aston Business School and University of Technology, Sydney

Combining a practical and theoretical guide to the politics of organizational change, this book provides an exceptional resource to students of change management, and organizational behaviour. Buchanan and Badham show how the change agent who is not politically skilled will fail, and that it is necessary to be able and willing to intervene in the political processes of the organization. This revised edition includes a range of excellent new material and features, including: - a new chapter on gender in approaches to organization politics - a full range of teaching materials including case studies, incident reports, self-assessments, and more - Each chapter recommends a feature film (or DVD) to illustrate aspects of organization politics - fresh research evidence - recent literature on the

nature of entrepreneurial politics; - a model of political expertise, and how that can be developed

This lively and engaging book is key to MBA and other Masters degree candidates taking courses in change management, and organizational behaviour. It will also be valuable for practising managers on tailored executive programmes in organization politics. PCMag.com is a leading authority on technology, delivering Labs-based, independent reviews of the latest products and services. Our expert industry analysis and practical solutions help you make better buying decisions and get more from technology. Includes entries for maps and atlases. An in-depth look at the Washington Post from a Pulitzer Prize-nominated Post veteran. Morning Miracle definitively answers the question "Do newspapers still matter?" with a resounding yes. What The Kingdom and the Power did for the New York Times, Morning Miracle will do for the Washington Post. A reporter for more than forty years, Dave Kindred takes you inside the heart of the legendary newspaper and offers a unique opportunity to see what it really takes to produce world-class journalism every day. Granted unprecedented access to every nook and cranny of the paper, including candid exchanges with its most celebrated journalists, such as Bob Woodward, Sally Quinn, David Broder, and former executive editor Ben Bradlee (who gave the book its title), Kindred provides a no-holds-barred look at the twenty-first-century newsroom. As it becomes more difficult to maintain journalistic integrity, stay relevant in the age of blogs, and meet Wall Street's demands for profits, the newspaper—more than any other medium—also shoulders the tremendous responsibility of acting as a watchdog for democracy. Perhaps no one sums up the overwhelming challenges that face the Post and its power to endure better than the author himself: "It is still a miracle that you can put 700 overcaffeinated misfits in a newsroom, on deadline, adrenaline running, secrets to spill, and before midnight a messenger delivers a smoking-hot city edition to Don Graham's manse in Georgetown." Since the invention of the first working laser in 1960, development of these devices has progressed at an unprecedented rate, to the extent that the laser is now a common part of everyday life, from the semiconductor laser used in CD players and telecommunication systems to the high power eximer lasers used in manufacturing processes. This book tra PCMag.com is a leading authority on technology, delivering Labs-based, independent reviews of the latest products and services. Our expert industry analysis and practical solutions help you make better buying decisions and get more from technology. This junior level electronics text provides a foundation for analyzing and designing analog and digital electronics throughout the book. Extensive pedagogical features including numerous design examples, problem solving technique sections, Test Your Understanding questions, and chapter checkpoints lend to this classic text. The author, Don Neamen, has many years experience as an Engineering Educator. His experience shines through each chapter of the book, rich with realistic examples and practical rules of thumb. The Third Edition continues to offer the same hallmark features that made the previous editions such a success. Extensive Pedagogy: A short introduction at the beginning of each chapter links the new chapter to the material presented in previous chapters. The objectives of the chapter are then presented in the Preview section and then are listed in bullet form for easy reference. Test Your Understanding Exercise Problems with provided answers have all been updated. Design Applications are included at the end of chapters. A specific electronic design related to that chapter is presented. The various stages in the design of an electronic thermometer are explained throughout the text. Specific Design Problems and Examples are highlighted throughout as well.

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