The fourth volume in a series, this work details coverage of recent developments in the field of optical fibre sensors. It describes the impact which fibre sensors are having in such areas as chemical and environmental monitoring, structural instrumentation and smart structure, process control and engineering, and specialist industrial measurements. Written by one of the field's leading experts, this landmark reference presents a thorough system analysis of the fiber-optic gyroscope (FOG), describing the concepts that have emerged as the preferred solutions for obtaining a practical device. This book's first edition was published in the early 1990's. If the basic design rules of the FOG have remained unchanged, the technology has certainly matured, and the expectations presented in the first edition have been largely exceeded. This second edition is updated throughout, featuring new content on Allan variance; testing with optical coherence domain polarimetry; the Shupe effect; and rare-Earth doped fiber ASE sources. In addition, brand new comprehensive appendixes cover the optics, single-mode fiber optics, and integrated optics necessary to understand the fiber gyro and provide an appropriate vocabulary for communicating with electronic component designers.

Cover -- Half-title -- Title -- Copyright -- Dedication -- Contents -- Preface -- 1 Youth and Media -- 2 Then and Now -- 3 Themes and Theoretical Perspectives -- 4 Infants, Toddlers, and Preschoolers -- 5 Children -- 6 Adolescents -- 7 Media and Violence -- 8 Media and Emotions -- 9 Advertising and Commercialism -- 10 Media and Sex -- 11 Media and Education -- 12 Digital Games -- 13 Social Media -- 14 Media and Parenting -- 15 The End -- Notes -- Page 1/20

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Kassin/Fein/Markus' SOCIAL PSYCHOLOGY, 11th Edition, brings chapter concepts to life through a unique emphasis on current events in sports, music, entertainment, technology, social media, business, world politics and more. Combining scholarship with real-world illustrations, it helps you understand the field of social psychology through engaging connections to everyday life. Integrating both classic and emerging research, the text delivers comprehensive coverage of social cognition and applications to law, business, and health and well-being. In addition, author Hazel Rose Markus, a respected researcher in the study of cultural psychology, integrates culture and diversity topics into every chapter. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

This book explains the principle, construction, and practical use of the Auschütz Gyro-Compass, chiefly translated from the German publication by Auschütz

Research findings and dissemination are making healthcare more effective. Electronic health records systems and advanced tools are making care delivery more efficient. Legislative reforms are striving to make care more affordable. Efforts still need to be focused on making healthcare more accessible. Clinical Videoconferencing in Telehealth takes a comprehensive and vital step forward in providing mental health and primary care services for those who cannot make traditional office visits, live in remote areas, have transportation or mobility issues or have competing demands. Practical, evidence-based information is presented in a step by step format at two levels: for administrators, including information regarding selecting the right

videoconferencing technology, navigating regulatory issues, policy temples, boilerplate language for entering into care agreements with other entities and practical solutions to multisite programming; and for clinicians, including protocols for safe, therapeutically sound practice, informed consent and tips for overcoming common technical barriers to communication in clinical videoconferencing contexts. Checklists, tables, templates, links, vignettes and other tools help to equip professional readers for providing safe services that are streamlined and relevant while avoiding quesswork, false starts and waste. The book takes a friendly-mentor approach to communication in areas such as: Logistics for administrators: Clinical videoconferencing infrastructures and technologies Policy development, procedures and tools for responsible and compliant programming Navigating issues related to providing services in multiple locations Protocols for clinicians: The informed consent process in clinical videoconferencing Clinical assessment and safety planning for remote services Minimizing communication disruption and optimizing the therapeutic alliance Clinical Videoconferencing in Telehealth aptly demonstrates the promise and potential of this technology for clinicians, clinic managers, administrators and others affiliated with mental health clinical practices. It is designed to be the comprehensive "one-stop" tool for clinical videoconferencing service development for programs and individual clinicians.

The piecemeal fashion in which human factors research has been conducted in the maritime domain makes information retrieval available only by scanning through numerous research journals and conference papers. Bringing together human factors information from this and other domains, Human Factors in the Maritime Domain integrates a common body of knowledge into one single volume. The book provides the vital background information

necessary to acquire a core knowledge base and a much-needed overview of human factors within the maritime domain. It starts by putting the topic into an historical and theoretical context, moves onto more specific and detailed topics and contemporary thinking in human factors, then reviews new maritime technology. The authors take a holistic approach based on a model of the socio-technical system of work in the maritime domain. They synthesize available knowledge and research, then present in an easily acceptable framework with example, illustrations, and case studies whenever possible, making the text rigorous, useful, and enjoyable. The three authors draw on a range of diverse backgrounds including working as a maritime surveyor, transport consultant, human factors lecturer, and mechanical engineer. They have undertaken maritime research in Denmark, Australia, Malta, and the UK. They have published several other human factor books on related topics. This combination of human factors knowledge, maritime wisdom, and substantial publication experience results in a book that is effective and practical.

The premier book on Canada's offshore, for everyone with a need for the most up-to-date information. It touches on all aspects, from international concepts to Canadian applications to practical demonstrations.

Recognizing that medical faculty face different questions or issues in different stages of their careers, this handy, practical title offers a comprehensive roadmap and range of solutions to common challenges in the complex and changing Academic Medical Center (AMC). With critical insights and strategies for both aspiring and seasoned academicians, this handbook offers a concise guide for

personal career development, executive skill acquisition, and leadership principles, providing actionable, targeted advice for faculty seeking help on a myriad of new issues and situations. Pressures in today's Academic Medical Center include significant changes to the healthcare system, competition for research funding, transformation of medical education, and recruitment and retention of the ever-evolving workforce. This dynamic environment calls for razorsharp leadership and management effectiveness to stay competitive. AMC faculty aspire to formal leadership roles for a variety of reasons: to set a new vision, to create change, or to affect policy and resource decisions. For others, weariness of past leadership styles or mistakes may catalyze wanting a chance to set a different tone. In the end, promotional opportunities often come with great administrative and management responsibilities. Management and Leadership Skills for Medical Faculty: A Practical Handbook is a must-have resource for faculty in AMCs and anyone with a role in healthcare leadership. Typical practical applications of VSDs in process control and materials handling, such as those for pumping, ventilation, conveyers, compressors and hoists are covered in detail. Provides a fundamental understanding of the installation, operation and troubleshooting of Variable Speed Drives (VSDs) - Includes practical coverage of key topics such as troubleshooting, control wiring, operating

modes, braking types, automatic restart, harmonics, electrostatic discharge and EMC/EMI issues - Essential reading for electrical engineers and those using VSDs for applications such as pumping, ventilation, conveyors and hoists in process control, materials handling and other industrial contexts Practical, authoritative, and the first comprehensive guide tomanaging every phase of your publication project. The only bookdevoted exclusively to technical publication project management, Managing Your Documentation Projects arms you with provenstrategies and techniques for producing high-quality, extremely usable documentation, while cutting cost and time-to-market. Dr.JoAnn T. Hackos, a top documentation design and project management consultant to major corporations, including IBM and Hewlett-Packard, shares with you the fruit of her more than 15 years of experience in the field. She gives you: \* Clear-cut, rational guidelines to managing every phase of the project from planning and development, through production, distribution, and project evaluation \* Scores of usable templates, checklists, summaries, andforms \* Dozens of real-life case studies and scenarios taken from theauthor's extensive experience at top corporations \* Techniques applicable to virtually all fields ofdocumentation Managing Your Documentation Projects was designed to function as acomprehensive guide for new managers and a daily tool of survivalfor veterans.

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It is also an invaluable resource for technicalwriters, editors, graphic designers, consultants, and anyone calledupon to produce high-quality technical documentation on time andwithin budget. JOANN T. HACKOS, PhD, is President of ComtechServices, Inc., an information/design firm in Denver, Colorado andSan Jose, California. She is also president of JoAnn Hackos &Associates, Inc., a strategic planning and management consultingfirm. In 1993, she served as president of the Society for TechnicalCommunication (STC) and is a frequent conference keynote speaker onsuch topics as quality and usability of products and services, theimportance of meeting the needs of the customer, and projectmanagement.

This text, aimed at the clinical cardiologist, covers the planning of and partcipation in a clinical trial. It interprets the importance of past clinical trials in current clinical practice.

Political yard signs are one of the most ubiquitous and conspicuous features of American political campaigns, yet they have received relatively little attention as a form of political communication or participation. In Politics on Display, Todd Makse, Scott L. Minkoff, and Anand E. Sokhey tackle this phenomenon to craft a larger argument about the politics of identity and space in contemporary America. Documenting political life in two suburban communities and a major metropolitan

area, they use an unprecedented research design that leverages street-level observation of the placement of yard signs and neighborhood-specific survey research that delves into the attitudes, behavior, and social networks of residents. The authors then integrate these data into a geo-database that also includes demographic and election data. Supplemented by nationally-representative data sources, the book brings together insights from political communication, political psychology, and political geography. Against a backdrop of conflict and division, this book advances a new understanding of how citizens experience campaigns, why many still insist on airing their views in public, and what happens when social spaces become political spaces.

Written by contributors hailing from a variety of disciplines and viewpoints, the thirty-five essays in this anthology explore the continued inequality of the sexes in higher education and suggest changes that could make universities more family-friendly workplaces. Simultaneous.

Chapter V of the International Convention for the Safety of Life at Sea (SOLAS V) has been substantially revised. The new Regulations will come into force in the UK on 1 July 2002 under the Merchant Shipping (Safety of Navigation) Regulations 2002, and will replace the 1974 Chapter V (SOLAS V/74) Regulations. The Regulations apply to all UK ships on all voyages and to all other Page 8/20

ships while they are in UK waters. This publication contains the full text for each Regulation, as determined by the International Maritime Organisation (IMO), along with explanatory guidance notes. It has been prepared to provide practical guidance to ship-owners, masters, crews and the shipping industry on the implementation of the new SOLAS Regulations.

Time-Triggered Communication helps readers build an understanding of the conceptual foundation, operation, and application of time-triggered communication, which is widely used for embedded systems in a diverse range of industries. This book assembles contributions from experts that examine the differences and commonalities of the most significant protocols including: TTP, FlexRay, TTEthernet, SAFEbus, TTCAN, and LIN. Covering the spectrum, from low-cost time-triggered fieldbus networks to ultra-reliable time-triggered networks used for safety-critical applications, the authors illustrate the inherent benefits of time-triggered communication in terms of predictability, complexity management, fault-tolerance, and analytical dependability modeling, which are key aspects of safety-critical systems. Examples covered include FlexRay in cars, TTP in railway and avionic systems, and TTEthernet in aerospace applications. Illustrating key concepts based on real-world industrial applications, this book: Details the underlying concepts and principles of time-triggered communication

Explores the properties of a time-triggered communication system, contrasting its strengths and weaknesses Focuses on the core algorithms applied in many systems, including those used for clock synchronization, startup, membership, and fault isolation Describes the protocols that incorporate presented algorithms Covers tooling requirements and solutions for system integration, including scheduling The information in this book is extremely useful to industry leaders who design and manufacture products with distributed embedded systems based on time-triggered communication. It also benefits suppliers of embedded components or development tools used in this area. As an educational tool, this material can be used to teach students and working professionals in areas including embedded systems, computer networks, system architectures, dependability, real-time systems, and automotive, avionics, and industrial control systems.

Using circuit diagrams, PCB layouts, parts lists and clear construction and installation details, this book provides everything someone with a basic knowledge of electronics needs to know in order to put that knowledge into practice. This latest collection of Maplin projects are a variety of power supply projects, the necessary components for which are readily available from the Maplin catalogue or any of their high street shops. Projects include, laboratory power supply projects for which there are a wide range of

applications for the hobbyist, from servicing portable audio and video equipment to charging batteries; and miscellaneous projects such as a split charge unit for use in cars or similar vehicles when an auxiliary battery is used to power 12v accessories in a caravan or trailer. Both useful and innovative, these projects are above all practical and affordable.

Recognizing that leaders in healthcare institutions face different questions and issues in different stages of their careers, this handy, practical title offers a comprehensive roadmap and range of solutions to common challenges in the complex and changing Academic Medical Center (AMC) and health care organization. Fully updated from the very well-received first edition and including new chapters, this concise handbook offers a guide for personal career development, executive skill acquisition, and leadership principles, providing real-world, actionable advice for faculty and executives seeking help on a myriad of new issues and situations. With a slightly modified title to recognize that leaders in academic medical centers and health care systems are not limited to medical faculty, this new edition maintains much of the content of the successful first edition with revisions based on feedback from readers and colleagues. New material has been added to reflect what is happening as health care undergoes major transformation. With a broader panel of renowned authors from a mix of healthcare institutions as well as nonmedical experts in leadership and management, the book again meets its primary objective: to provide medical faculty, healthcare executives and

other leaders with a contemporary, directly relevant resource that emphasizes practical skills and leadership development advice, including personal improvement, which can be used at any stage of one's career. /div /divWith critical insights and strategies for both aspiring and seasoned academicians and health executives, Management and Leadership Skills for Medical Faculty and Healthcare Executives: A Practical Handbook, 2nd Edition is a must-have resource for faculty in AMCs and for anyone with a role in healthcare leadership.

This book provides an overview of contemporary trends and challenges in maritime energy management (MEM). Coordinated action is necessary to achieve a low carbon and energy-efficient maritime future, and MEM is the prevailing framework aimed at reducing greenhouse gas emissions resulting from maritime industry activities. The book familiarizes readers with the status quo in the field, and paves the way for finding solutions to perceived challenges. The 34 contributions cover six important aspects: regulatory framework; energy-efficient ship design; energy efficient ship and port operation; economic and social dimensions; alternative fuels and wind-assisted ship propulsion; and marine renewable energy. This pioneering work is intended for researchers and academics as well as practitioners and policymakers involved in this important field.

Electronic navigation, although still relatively new, is becoming increasingly more common, particularly on commercial vessels. This handbook offers a wealth of detailed

information about how different charting systems operate and answers the most commonly asked questions regarding electronic charts (ENC, RNC, DNC) and electronic chart systems (ECD

This books provides content that arms clinicians with the core knowledge and competencies necessary to be effective informatics leaders in health care organizations. The content is drawn from the areas recognized by the American Council on Graduate Medical Education (ACGME) as necessary to prepare physicians to become Board Certified in Clinical Informatics. Clinical informaticians transform health care by analyzing, designing, selecting, implementing, managing, and evaluating information and communication technologies (ICT) that enhance individual and population health outcomes, improve patient care processes, and strengthen the clinician-patient relationship. As the specialty grows, the content in this book covers areas useful to nurses, pharmacists, and information science graduate students in clinical/health informatics programs. These core competencies for clinical informatics are needed by all those who lead and manage ICT in health organizations, and there are likely to be future professional certifications that require the content in this text.? Plugged in How Media Attract and Affect Youth Yale University Press The principles of navigation have not changed, but the art of navigation has. With the right training and to some degree the right ECDIS, you can replace paper charts with an ECDIS in all operating conditions - even when GPS is unavailable. This manual is

about sharing best practice and ensuring that the transition is efficient and safe. Popular designers Kay Connors and Karen Earlywine present 10 fresh quilts that take their cues from 1930s classics. Inspired by antique quilts and patterns discovered in old newspapers, these projects are brimming with old-fashioned charm. See the original 1930s designs that sparked this collection of patterns written for today's techniques Be inspired to try everything from patchwork to appliqué, embroidery, making yo-yos, using rickrack, and quilting by hand Use full-sized appliqué patterns--no enlargements needed--and find projects for all skill levels

Shipping is a pillar of global trade, with 90 per cent of the world's trade in goods and raw materials carried by ship. Despite the economic benefits this delivers, maritime operations can be dangerous, and when accidents occur the consequences are serious. Consequential outcomes from hazards at sea include serious injury, death, loss of cargo and destruction of the marine environment. Managing Maritime Safety will give you a thorough understanding of contemporary maritime safety and its management. It provides varying viewpoints on traditional safety topics in conjunction with critical discussions of the international safety management code and its application. The book also offers new perspectives on maritime safety such as ship and equipment design for safety and the relevance of safety management systems, in particular the application of the International Safety Management code to remote controlled or autonomous ships. The authors all work in the maritime industry, as practitioners, in education, research, government and classification. The combination of wide-ranging and extensive experience provides an unprecedented span of views with a strong connection to the

real issues in the maritime domain. This book sets out to provide much needed consolidated knowledge for university level students on maritime safety management, incorporating theoretical, historical, research, operational and design perspectives. Information: 1st Macmillan paperbacks ed. Includes bibliographies and index. This book highlights an analytical solution for the dynamics of axially symmetric rotating objects. It also presents the theory of gyroscopic effects, explaining their physics and using mathematical models of Euler's form for the motion of movable spinning objects to demonstrate these effects. The major themes and approaches are represented by the spinning disc and the action of the system of interrelated inertial torques generated by the centrifugal, common inertial, Coriolis forces, as well as the change in their angular momentum. These torques constitute the fundamental principles of the mechanical gyroscope theory that can be used for any rotating objects, like rings, cones, spheres, paraboloids and propellers of different designs. Lastly, the mathematical models for the gyroscopic effects are validated by practical tests.

This is an edited book that brings together many of the most distinguished researchers and clinicians in the field of food misuse. The papers included are drawn from the conferences on psychological approaches to eating disorders and obesity held at the University of Hertfordshire in 2005 and 2006. It presents current research while focusing on the application of this new knowledge. It covers both eating disorders and obesity in one volume, thus positioning obesity firmly at one end of the food misuse continuum. Chapters will cover subjects such as psychological and cultural aspects of food use, using CBT for treating eating disorders, and CBT group therapy for obesity.

This book presents a comprehensive neuropsychodynamic strategy for treating psychiatric disorders. Rather than pursuing an exclusively biological, psychological, or psychodynamic approach, it offers a methodology that links all three aspects in a unifying, integrative model. Central to this approach is the view of the brain as a bio-psychosocial organ in a neuroecological model, rather than the purely neuronal model often presupposed in current neuroscience and psychiatry. Moreover, the book views psychopathological symptoms as spatiotemporal disorders of the altered spatiotemporal structure spanning the brain and its surrounding world. The relation between one of the core symptoms and altered neuronal activity calls for the development of integrated, circular neuropsychodynamic models of psychopathological symptoms in severe psychiatric disorders and their treatment. Defense doesn't win championships. Defense wins games. Brands win championships. In ten years, the most consistently successful college athletic programs will be those with the strongest brands, not simply the strongest defense or most explosive offense from year to year. It's not just about x's and o's anymore. It about polarizing uniforms on the field and massive billboards in Times Square. It's about making your brand sexy to seventeen- and eighteen-year-old blue-chip athletes. And this is your guidebook on how to reach them. Inside, you'll find three simple brand-building steps that can take your program from bad to good or from good to great. Jeremy Darlow is a brand marketing professional who, during his time at adidas, has worked with schools like Notre Dame, Michigan, and UCLA, and athletes like Robert Griffin III, Dwight Howard, and Lionel Messi. He works to help NCAA athletic programs and athletes build and elevate their brands to elite levels. \*\*\* "A must-read for anyone in sports marketing. This book sees the future and shows you how to get there." - Nate Scott, USA

TODAY Sports, For the Win "Win or lose, here's how to build a national reputation for your college sports brand" - Al Ries, Author, Positioning: The Battle for Your Mind "Brands Win Championships offers a practical primer on how to build your brand with story and perception" - Tim Newcomb, Sports Illustrated "Die hard fans-that one concept, that one overlooked idea-is just one of the big ideas you'll find inside this book that's not actually about sports " - Seth Godin, Author, Linchpin

The MSC adopted a new Code of International Standards and Recommended Practices for a Safety Investigation into a Marine Casualty or Marine Incident (Casualty Investigation Code). Relevant amendments to SOLAS Chapter XI 1 were also adopted, to make parts I and II of the Code mandatory. Part III of the Code contains related guidance and explanatory material. The Code will require a marine safety investigation to be conducted into every marine casualty involving the total loss of the ship or a death or severe damage to the environment. The Code will also recommend an investigation into other marine casualties and incidents, by the flag state of a ship involved, if it is considered likely that it would provide information that could be used to prevent future accidents. The new regulations expand on SOLAS Regulation I/21, which requires administrations to conduct an investigation of any casualty occurring to any of its ships when it judges that such an investigation may assist in determining what changes in the present regulations might be desirable.

A fully updated textbook on linear systems theory Linear systems theory is the cornerstone of control theory and a well-established discipline that focuses on linear differential equations from the perspective of control and estimation. This updated second edition of Linear Systems Theory covers the subject's key topics in a unique lecture-style format, making the book easy

to use for instructors and students. João Hespanha looks at system representation, stability, controllability and state feedback, observability and state estimation, and realization theory. He provides the background for advanced modern control design techniques and feedback linearization and examines advanced foundational topics, such as multivariable poles and zeros and LQG/LQR. The textbook presents only the most essential mathematical derivations and places comments, discussion, and terminology in sidebars so that readers can follow the core material easily and without distraction. Annotated proofs with sidebars explain the techniques of proof construction, including contradiction, contraposition, cycles of implications to prove equivalence, and the difference between necessity and sufficiency. Annotated theoretical developments also use sidebars to discuss relevant commands available in MATLAB, allowing students to understand these tools. This second edition contains a large number of new practice exercises with solutions. Based on typical problems, these exercises guide students to succinct and precise answers, helping to clarify issues and consolidate knowledge. The book's balanced chapters can each be covered in approximately two hours of lecture time, simplifying course planning and student review. Easy-to-use textbook in unique lecture-style format Sidebars explain topics in further detail Annotated proofs and discussions of MATLAB commands Balanced chapters can each be taught in two hours of course lecture New practice exercises with solutions included

Linear matrix inequalities (LMIs) have recently emerged as useful tools for solving a number of control problems. This book provides an up-to-date account of the LMI method and covers topics such as recent LMI algorithms, analysis and

synthesis issues, nonconvex problems, and applications. It also emphasizes applications of the method to areas other than control.

Describes the author's quest to come to terms with the loss of her husband to cancer and live boldly by relocating from New York to the Rocky Mountains with their twin children, where she gets a second chance at love.

This book systematically presents the concept, history, implementation, theory system and basic methods of pulsar and space flight, illustrating the characteristics of pulsars. It also describes the classification of spacecraft navigation systems and the autonomous navigation technologies, as well as X-ray pulsar-based navigation systems (XPNAV) and discusses future navigation satellite systems in detail.

To be able to compete successfully both at national and international levels, production systems and equipment must perform at levels not even thinkable a decade ago. Requirements for increased product quality, reduced throughput time and enhanced operating effectiveness within a rapidly changing customer demand environment continue to demand a high maintenance performance. In some cases, maintenance is required to increase operational effectiveness and revenues and customer satisfaction while reducing capital, operating and support costs. This may be the largest challenge facing production enterprises these

days. For this, maintenance strategy is required to be aligned with the production logistics and also to keep updated with the current best practices. Maintenance has become a multidisciplinary activity and one may come across situations in which maintenance is the responsibility of people whose training is not engineering. This handbook aims to assist at different levels of understanding whether the manager is an engineer, a production manager, an experienced maintenance practitioner or a beginner. Topics selected to be included in this handbook cover a wide range of issues in the area of maintenance management and engineering to cater for all those interested in maintenance whether practitioners or researchers. This handbook is divided into 6 parts and contains 26 chapters covering a wide range of topics related to maintenance management and engineering.

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