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New Horizons in Mobile and Wireless Communications  
Springer

This useful tool provides the reader with a current overview of where microstrip patch antenna technology is at, and useful information on how to design this form of radiator for their given application and scenario. Practical design cases are provided for each goal.

### Linear-Quadratic Controls in Risk-Averse Decision Making

Commerce Business Daily Methodology for Achieving GASB 34 Modified Approach Compliance Using U.S. Navy "Smart Base" Facility Management Practices Historically, local infrastructure assets have been overlooked and under-funded, viewed more often as sunk costs than as strategic assets. While the growth of enterprise software solutions for asset management has begun to change this, the high cost and complexity of such systems has primarily limited their implementation to large government agencies and major cities. With the creation of its Statement 34 requirements, the Government Accounting Standards Board (GASB) seeks to improve the tracking, management and reporting of infrastructure assets by smaller cities and towns. Due to phase in between 2001 and 2003, depending on annual revenue levels, GASB 34 has forced a renewed focus on infrastructure portfolios at the local level. This research develops a strategy and methodology for small local governments to create flexible, cost effective asset management systems. Faced with the management of a global infrastructure portfolio exceeding \$130 billion in 2001, the U.S. Navy has invested heavily in the area of public works management. The Smart Base project at Naval Shipyard Portsmouth, an ongoing initiative to develop customized information technology solutions at the installation level, is examined as a model for small towns to emulate during the development of GASB 34 compliant asset management systems. The resultant methodology provides a simple, robust framework for the integration of inventory, condition and valuation data within the existing GIS system used by the town of Winchester, Massachusetts. Managing Innovation This compilation of the works and insights of various key scientists and engineers in this area addresses the current and future trends of scenarios for employing adaptive antenna arrays in communication systems. Ideal as a quick reference for engineers, researchers, advanced undergraduate and postgraduate students.

Management Services MIT Press

Since the end of the Cold War, the U.S. Navy has reduced its active military forces by about 28% and has plans to further reduce its personnel to help modernize a smaller but more capable force. In 1996, pay and allowances for active duty Navy personnel was \$17 billion, or about 25% of the Navy's obligational authority. This report examines the size and composition of Navy active duty forces between 1989 and 1999, the navy's plan to achieve its FY 1099 active duty force goal and initiatives that could further reduce forces beyond the planned FY 1999 level, and the Navy's processes for determining active military force requirements.

*Hearings on National Defense Authorization Act for Fiscal Year 1999--H.R. 3616 and Oversight of Previously Authorized Programs Before the Committee on National Security, House of Representatives, One Hundred Fifth Congress, Second Session*  
World Scientific

There is a need to be aware of the challenges awaiting us in next generation (NextGen) networks in order to take the proper steps to either minimize or eliminate issues as they present themselves. Incorporating artificial intelligence in NextGen networks for privacy and security policies will serve this purpose. It is essential to stay current with these emerging technologies and applications in order to maintain safe and secure communications in the future. Challenges and Risks Involved in Deploying 6G and NextGen Networks explores strategies for the design and deployment of more secured and user-centered NextGen networks through artificial intelligence to enrich user experience. It further investigates the political, social, and geographical challenges involved in realizing these 6G networks and explores ways to improve the security of future potential applications as well as protect user data from illegal access. Covering topics such as deep learning algorithms, aerial network communication, and edge computing, this major reference work is an indispensable resource for regulatory and policy groups, associations and technology groups, government and international

bodies, technology executives and technical institutions, management consulting and advisory firms, communication engineers, network engineers, students and educators of higher education, researchers, and academicians.  
Consultants & Consulting Organizations Directory DIANE Publishing

This book provides a discussion of the general impact of WTO membership on both sides of the Taiwan Strait, and addresses the political and economic impact on cross-Strait relations of common membership. The book begins with an introduction which analyzes the state of cross-Strait economic and political relations on the eve of dual accession to the WTO and briefly introduces the chapters which follow. The first chapter discusses the concessions made by both sides in their accession agreements and is followed by two chapters which describe the manner in which the Taiwan economy was reformed to achieve compliance as well as the specific, restrictive trade regime that was put into place to manage mainland trade. The next two chapters deal with the implications of that restrictive trade regime for the Taiwan economy in Asia and with the nature of the interactions between the two sides within the WTO. The final four chapters of the volume examine the impact of membership on four sectors of the economy: finance; agriculture; electronics and automobiles. There is a post-script which briefly covers developments since the chapters were completed.

Congressional Record CRC Press

This New York Times bestselling book is packed with thoughtful advice and inspiring photos to help you create a home filled with beauty and meaning. In the three years since Sherry and John Petersik wrote their bestselling book *Young House Love*, they have bought a new house and had a new baby, and they have seen their design perspective evolve right along with their family. In their latest book, they've set out to prove that just because you have kids or pets doesn't mean you're sentenced to floors overrun with toys or furniture covered in plastic. Through never-before-seen makeovers in the Petersiks' own house, doable DIY projects, and a gallery of other inspiring spaces, *Lovable Livable Home* shows how beautiful homes can be functional too.

Advances in Intelligent Systems and Computing IGI Global

"This book brings together advanced research on diverse topics in wireless communications and networking, including the latest developments in broadband technologies, mobile communications, wireless sensor networks, network security, and cognitive radio networks"--

Intl. Engineering Consortium

This book of case histories is devoted solely to service industries and the technologies that drive them, as told by those who have developed segments of these industries. The chapters cover innovations such as Federal Express's advanced system for package tracking, Citicorp's development of the Automated Teller Machine, AT&T's experience with mobile telephones, Bell & Howell's introduction of an automated automotive parts catalog, and the New York Stock Exchange's development of electronic trading. Some broader analyses discuss the interfaces between services technologies and manufacturing, operations research in services, and technology in professional services. Challenges and Risks Involved in Deploying 6G and NextGen Networks National Academies Press

A critical part of ensuring that systems are advancing alongside technology without complications is problem solving. Practical applications of problem-solving theories can model conflict and cooperation and aid in creating solutions to real-world problems. *Soft-Computing-Based Nonlinear Control Systems Design* is a critical scholarly publication that examines the practical applications of control theory and its applications in problem solving to fields including economics, environmental management, and financial modelling. Featuring a wide range of topics, such as fuzzy logic, nature-inspired algorithms, and cloud computing, this book is geared toward academicians, researchers, and students seeking relevant research on control theory and its practical applications.

Catalog of Copyright Entries. Third Series IGI Global

"This book covers a great variety of topics such as materials, environment, electronics, and computing, offering a vital source of information detailing the latest architectures, frameworks, methodologies, and research on energy-aware systems and networking for sustainable initiatives"--

*Official Gazette of the United States Patent and Trademark Office* Routledge  
*Linear-Quadratic Controls in Risk-Averse Decision Making* cuts across control engineering (control feedback and decision optimization) and statistics (post-design performance analysis) with a common theme: reliability increase seen from the responsive angle of incorporating and engineering multi-level performance robustness beyond the long-run average performance into control feedback design and decision making and complex dynamic systems from the start. This monograph provides a complete description of statistical optimal control (also known as cost-cumulant control) theory. In control problems and topics, emphasis is primarily placed on major developments attained and explicit connections between mathematical statistics of performance appraisals and decision and control optimization. Chapter summaries shed light on the relevance of developed results, which makes this monograph suitable for graduate-level lectures in applied mathematics and electrical engineering with systems-theoretic concentration,

elective study or a reference for interested readers, researchers, and graduate students who are interested in theoretical constructs and design principles for stochastic controlled systems.

Telecommunications IGI Global

A typical engineering task during the development of any system is, among others, to improve its performance in terms of cost and response. Improvements can be achieved either by simply using design rules based on the experience or in an automated way by using optimization methods that lead to optimum designs. *Design Optimization of Active and Passive Structural Control Systems* includes Earthquake Engineering and Tuned Mass Damper research topics into a volume taking advantage of the connecting link between them, which is optimization. This is a publication addressing the design optimization of active and passive control systems. This title is perfect for engineers, professionals, professors, and students alike, providing cutting edge research and applications.

Energy-Aware Systems and Networking for Sustainable Initiatives IGI Global

An examination of how the availability of low-end information and communication technology has provided a basis for the emergence of a working-class network society in China. The idea of the "digital divide," the great social division between information haves and have-nots, has dominated policy debates and scholarly analysis since the 1990s. In *Working-Class Network Society*, Jack Linchuan Qiu describes a more complex social and technological reality in a newly mobile, urbanizing China. Qiu argues that as inexpensive Internet and mobile phone services become available and are closely integrated with the everyday work and life of low-income communities, they provide a critical seedbed for the emergence of a new working class of "network labor" crucial to China's economic boom. Between the haves and have-nots, writes Qiu, are the information "have-less": migrants, laid-off workers, micro-entrepreneurs, retirees, youth, and others, increasingly connected by cybercafés, prepaid service, and used mobile phones. A process of class formation has begun that has important implications for working-class network society in China and beyond. Qiu brings class back into the scholarly discussion, not as a secondary factor but as an essential dimension in our understanding of communication technology as it is shaped in the vast, industrializing society of China. Basing his analysis on his more than five years of empirical research conducted in twenty cities, Qiu examines technology and class, networked connectivity and public policy, in the context of massive urban reforms that affect the new working class disproportionately. The transformation of Chinese society, writes Qiu, is emblematic of the new technosocial reality emerging in much of the Global South.

Journal of Engineering Mechanics Springer Nature

Containing essays from leading experts in the industry that discuss academic theories and practical applications of wireless communications, this book focuses on the latest wireless technologies and advancements. A diverse volume, it seeks to shed light on such topics as business strategies and current trends while combining the perspectives of many specialists across the nation. *Adaptive Antenna Arrays* Springer Science & Business Media  
Based on cutting-edge research projects in the field, this book (part of a comprehensive 4-volume series) provides the latest details and covers the most impactful aspects of mobile, wireless, and broadband communications development. These books present key systems and enabling technologies in a clear and accessible manner, offering you a detailed roadmap the future evolution of next generation communications. Other volumes cover Radio Interfaces; Networks, Services and Applications; and Ad Hoc Networks.

*Expeditionary Logistics* Artech House

The global threat landscape is constantly evolving and remaining competitive and modernizing our digital environment for great power competition is imperative for the Department of Defense. We must act now to secure our future. This *Digital Modernization Strategy* is the cornerstone for advancing our digital environment to afford the Joint Force a competitive advantage in the modern battlespace. Our approach is simple. We will increase technological capabilities across the Department and strengthen overall adoption of enterprise systems to expand the competitive space in the digital arena. We will achieve this through four strategic initiatives: innovation for advantage, optimization, resilient cybersecurity, and cultivation of talent. The *Digital Modernization Strategy* provides a roadmap to support implementation of the National Defense Strategy lines of effort through the lens of cloud, artificial intelligence, command, control and communications and cybersecurity. This approach will enable increased lethality for the Joint warfighter, empower new partnerships that will drive mission success, and implement new reforms enacted to improve capabilities across the information enterprise. The strategy also highlights two important elements that will create an enduring and outcome driven strategy. First, it articulates an enterprise view of the future where more common foundational technology is delivered across the DoD Components. Secondly, the strategy calls for a Management System that drives outcomes through a metric driven approach, tied to new DoD CIO authorities granted by Congress for both technology budgets and standards. As we modernize our digital environment across the Department, we must recognize now more than ever the importance of collaboration with our industry and academic partners. I expect the senior leaders of our Department, the Services, and the Joint Warfighting community to take the intent and guidance in this strategy and drive implementation to achieve results in support of our mission to Defend the Nation.

*Optimization of Structural and Mechanical Systems* IGI Global  
This book constitutes the thoroughly refereed post-conference proceedings of the 5th International Conference on Mobile, Secure and Programmable Networking, held in Mohammedia, Morocco, in April 2019. The 23 papers presented in this volume were carefully reviewed and selected from 48 submissions. They discuss new trends in networking infrastructures, security, services and

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applications while focusing on virtualization and cloud computing for networks, network programming, software defined networks (SDN) and their security.

Methodology for Achieving GASB 34 Modified Approach Compliance Using U.S. Navy "smart Base" Facility Management Practices Springer Science & Business Media

Commerce Business Daily Methodology for Achieving GASB 34 Modified Approach Compliance Using U.S. Navy "smart Base" Facility Management Practices

The Inversion Factor Copyright Office, Library of Congress

Why companies need to move away from a "product first" orientation to pursuing innovation based on customer need. In the past, companies found success with a product-first orientation; they made a thing that did a thing.

The Inversion Factor explains why the companies of today and tomorrow will have to abandon the product-first orientation. Rather than asking "How do the products we make meet customer needs?" companies should ask "How can technology help us reimagine and fill a need?" Zipcar, for example, instead of developing another vehicle for moving people from point A to point B, reimagined how people interacted with vehicles. Zipcar inverted the traditional car company mission. The authors explain how the introduction of "smart" objects connected by the Internet of Things signals fundamental changes for business. The IoT, where real and digital coexist, is powering new ways to meet human needs. Companies that know this include giants like Amazon, Airbnb, Uber, Google, Tesla, and Apple, as well as less famous companies like Tile, Visenti, and Augury. The Inversion Factor offers a roadmap for businesses that want to follow in their footsteps. The authors chart the evolution of three IoTs—the Internet of Things (devices connected to the Internet), the Intelligence of Things (devices that host software applications), and the Innovation of Things (devices that become experiences). Finally, they offer a blueprint for businesses making the transition to inversion and interviews with leaders of major companies and game-changing startups.

Secondary Research Methods in the Built Environment Springer

The Department of Electronics and Communication Engineering of KIET Group of Institutions, Delhi-NCR organized the 4th International Conference ICCE-2020 during November 28-29, 2020. Information compiled in this book is based on the 114 research papers of excellent quality covering different domains of Electronics and Communication Engineering, Computer Science Engineering, Information Technology, Electrical Engineering, Electronics and Instrumentation Engineering.

The subject areas treated in the book are: Satellite, Radar and Microwave Techniques, Secure, Smart, and Reliable Networks, Next Generation Networks, Devices & Circuits, Signal & Image Processing, New Emerging Technologies, having the central focus on Recent Trends in Communication & Electronics (ICCE-2020). In addition, a few themes based on Special Sessions have also been conducted in ICCE-2020. The objective of the book resulting from the 4th International Conference on Recent Trends in Communication & Electronics (ICCE-2020) is to provide a resource for the study and research work for an interested audience comprising of researchers, students, audience, and practitioners in the areas of Communications & Computing Systems.