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Defense Offsets United States. Congress. House. Committee on Government Reform. Subcommittee on Criminal Justice, Drug Policy, and Human Resources 2000

Advanced Aircraft Design Egbert Torenbeek 2013-05-28 Although the overall appearance of modern airliners has not changed a lot since the introduction of jetliners in the 1950s, their safety, efficiency and environmental friendliness have improved considerably. Main contributors to this have been gas turbine engine technology, advanced materials, computational aerodynamics, advanced structural analysis and on-board systems. Since aircraft design became a highly multidisciplinary activity, the development of multidisciplinary optimization (MDO) has become a popular new discipline. Despite this, the application of MDO during the conceptual design phase is not yet widespread. **Advanced Aircraft Design: Conceptual Design, Analysis and Optimization of Subsonic Civil Airplanes** presents a quasi-analytical optimization approach based on a concise set of sizing equations. Objectives are aerodynamic efficiency, mission fuel, empty weight and maximum takeoff weight. Independent design variables studied include design cruise altitude, wing area and span and thrust or power loading. Principal features of integrated concepts such as the blended wing and body and highly non-planar wings are also covered. The quasi-analytical approach enables designers to compare the results of high-fidelity MDO optimization with lower-fidelity methods which need far less computational effort. Another advantage to this approach is that it can provide answers to “what if” questions rapidly and with little computational cost. Key features: Presents a new fundamental vision on conceptual airplane design optimization Provides an overview of advanced technologies for propulsion and reducing aerodynamic drag Offers insight into the derivation of design sensitivity information Emphasizes design based on first principles Considers pros and cons of innovative configurations Reconsiders optimum cruise performance at transonic Mach numbers **Advanced Aircraft Design: Conceptual Design, Analysis and Optimization of Subsonic Civil Airplanes** advances understanding of the initial optimization of civil airplanes and is a must-

have reference for aerospace engineering students, applied researchers, aircraft design engineers and analysts.

New Results in Numerical and Experimental Fluid Mechanics XI Andreas Dillmann 2017-10-29 This book gathers contributions to the 20th biannual symposium of the German Aerospace Aerodynamics Association (STAB) and the German Society for Aeronautics and Astronautics (DGLR). The individual chapters reflect ongoing research conducted by the STAB members in the field of numerical and experimental fluid mechanics and aerodynamics, mainly for (but not limited to) aerospace applications, and cover both nationally and EC-funded projects. Special emphasis is given to collaborative research projects conducted by German scientists and engineers from universities, research-establishments and industries. By addressing a number of cutting-edge applications, together with the relevant physical and mathematics fundamentals, the book provides readers with a comprehensive overview of the current research work in the field. Though the book's primary emphasis is on the aerospace context, it also addresses further important applications, e.g. in ground transportation and energy.

Computational Aerodynamics and Aeroacoustics Tapan K. Sengupta 2020-05-12 Recent advances in scientific computing have caused the field of aerodynamics to change at a rapid pace, simplifying the design cycle of aerospace vehicles enormously - this book takes the readers from core concepts of aerodynamics to recent research, using studies and real-life scenarios to explain problems and their solutions. This book presents in detail the important concepts in computational aerodynamics and aeroacoustics taking readers from the fundamentals of fluid flow and aerodynamics to a more in-depth analysis of acoustic waves, aeroacoustics, computational modelling and processing. This book will be of use to students in multiple branches of engineering, physics and applied mathematics. Additionally, the book can also be used as a text in professional development courses for industry engineers and as a self-help reference for active researchers in both academia and the industry.

Analytical Solutions for Extremal Space Trajectories Dilmurat M. Azimov 2017-08-23 Analytical Solutions for Extremal Space Trajectories presents an overall treatment of the general optimal control problem, in particular, the Mayer's variational problem, with necessary and sufficient conditions of optimality. It also provides a detailed derivation of the analytical solutions of these problems for thrust arcs for the Newtonian, linear central and uniform gravitational fields. These solutions are then used to analytically synthesize the extremal and optimal trajectories for the design of various orbital transfer and powered descent and landing maneuvers. Many numerical examples utilizing the proposed analytical synthesis of the space trajectories and comparison analyses with numerically integrated solutions are provided. This book will be helpful for engineers and researchers of industrial and government organizations, and is also a great resource for university faculty and graduate and undergraduate students working, specializing or majoring in the fields of aerospace engineering, applied celestial mechanics, and guidance, navigation and control technologies, applied mathematics and analytical dynamics, and avionics software design and development. Features an analyses of Pontryagin extremals and/or Pontryagin minimum in the context of space trajectory design Presents the general methodology of an analytical synthesis of the extremal and optimal trajectories for the design of various orbital transfer and powered descent and landing maneuvers Assists in developing the optimal control theory for applications in aerospace technology and space mission design

Satellite Communications Timothy Pratt 2019-12-16 Extensive revision of the best-selling text on satellite communications — includes new chapters on cubesats, NGSO satellite systems, and Internet access by satellite There have been many changes in the thirty three years since the first edition of Satellite Communications was published. There has been a complete transition from analog to digital communication systems, with analog techniques replaced by digital modulation and digital signal processing. While distribution of television programming remains the largest sector of commercial satellite communications, low earth orbit constellations of satellites for Internet access are set to challenge that dominance. In the third edition, chapters one through three cover topics that are specific to satellites, including orbits, launchers, and spacecraft. Chapters four through seven cover the principles of digital communication systems, radio frequency communications, digital modulation and multiple access techniques, and propagation in the earth's atmosphere, topics that are common to all radio communication systems. Chapters eight through twelve cover applications that include non-geostationary satellite systems, low throughput systems, direct broadcast satellite television, Internet access by satellite, and global navigation satellite systems. The chapter on Internet access by satellite is new to the third edition, and each of the chapters has been extensively revised to include the many changes in the field since the publication of the second edition in 2003. Two appendices have been added that cover digital transmission of analog signals, and antennas. An invaluable resource for students and professionals alike, this book: Focuses on the fundamental theory of satellite communications Explains the underlying principles and essential mathematics required to understand the physics and engineering of satellite communications Discusses the expansion of satellite communication systems in areas such as direct-broadcast satellite TV, GPS, and internet access Introduces the rapidly advancing field of small satellites, referred to as SmallSats or CubeSats Provides relevant practice problems based on real-world satellite systems Satellite Communications is required reading for undergraduate and postgraduate students in satellite communications courses and an authoritative reference for engineers working in communications, systems and networks, and satellite operations and management.

India and the Republic of Korea Skand R. Tayal 2015-07-17 Examining the underlying logic of the strategic and economic partnership between the Republic of Korea and India, this book is the first detailed study of the numerous facets — cultural, economic, people-to-people, and strategic — of blossoming relations between two major Asian democracies. This comprehensive survey documents the interaction between the two governments, relying on facts and hitherto unpublished original records provided by India's Ministry of External Affairs; offers an illuminating account of India's active role as a neutral party in the post-Second World War events of the Korean War and the division of the Korean Peninsula; and provides a vision of the future direction of India-Korea relations. The author also shares candid observations of Korean society and its people during his service as Ambassador of India in Seoul. The work will be useful to policy makers as well as students of politics and international relations, strategic studies, economics, and contemporary world history.

A Concise History of Afghanistan in 25 Volumes Hamid Wahed Alikuzai 2013-10 Afghanistan Literature is World's greatest and richest - without Afghan- Literature no European (German, French, Spanish or English) Literature would exist today The Vedas, Zoroastrian, and Buddhist, among the oldest known Literature of Afghanistan, originating from the Great capital of Bactria present day Balkh, and Aria present day Herat, Sanskrit is the reference to the original history of Afghanistan. The Saxon Europeans' influence during

the Great Games of the mid nineteenth century affected the Afghan language, religion and Territories' size, which previously had extended from India to North Africa at 2.6 million square kilometers. The Great Games continued at any cost evolving into present-day conflicts of 2013.

The Use of Electric Batteries for Civil Aircraft Applications Michael Waller 2018-12-10 The Use of Electric Batteries for Civil Aircraft Applications is a comprehensive and focused collection of SAE International technical papers, covering both the past and the present of the efforts to develop batteries that can be specifically installed in commercial aircraft. Recently, major commercial aircraft manufacturers started investigating the possibility of using Li-Ion batteries at roughly the same time that the military launched their first applications. As industry events unfolded, the FAA and committees from RTCA and SAE continued efforts to create meaningful standards for the design, testing, and certification of Li-Ion battery systems for commercial aviation. The first document issued was RTCA DO-311 on Mar. 13, 2008. As the industry continues to develop concepts and designs for the safe utilization of the new Li-Ion battery systems, many are already working on designs for all-electric aircraft, and small two-seat training aircraft are currently flying. The challenges for an all-electric, transport category aircraft will be significant, and the battery design ranks as one of the greatest. The more energy that is packaged into a small area to provide for the propulsion requirements, the more stringent are the design parameters and mitigation methodologies needed to make the system safe. The success or failure of this endeavor lies squarely on the shoulders of the engineers and scientists developing these new systems, and places additional pressure on the regulatory agencies to acquire the relevant knowledge for the creation of minimum operational performance standards for them. Edited by Michael Waller, an industry veteran, *The Use of Electric Batteries for Civil Aircraft Applications*, is a must-read for those interested in the new power generation making its way into commercial aircraft.

Understanding Management Richard L. Daft 2019-02-07 Discover the keys to management success as Daft/Marcic's UNDERSTANDING MANAGEMENT, 11E integrates classic management principles with today's latest management ideas. This captivating, market-leading edition focuses on management and entrepreneurial issues within small to midsize companies -- where you are most likely to begin your career - while still addressing challenges in larger global enterprises. Numerous new examples from today's food business further reflect today's trends. You gain valuable insights as you examine best practices in current management. This streamlined edition helps you build practical skills with engaging examples, skill-building and application exercises in every chapter. You examine how change demands innovation and how innovation requires forward-thinking and flexible leaders and organizations. Learn to become the successful manager who seizes business opportunities and leads change. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Technology Offsets in International Defence Procurement Kogila Balakrishnan 2018-08-14 Technology offsets, a nonconventional international trade-financing tool, is used by governments (buyers) to obtain industrial and technological benefits from companies (sellers) as part of international procurement. Offsets deals involve billions of dollars and this practice exists in around 80 countries around the world. Though offsets is a popular practice in defence, it is increasingly gaining popularity in civil sectors. Offsets is often tainted by

controversy and receives bad press. What then makes offsets popular? Governments claim that offsets delivers technology and knowledge transfer, skills in high technology sectors and employment, and offsets expands export opportunities through participation in OEM supply chains. For companies, offsets is mainly employed as a tool to obtain a competitive edge and win sales in international business. In the past, there have been mixed results of case studies on the impact of offsets successes and failures. Considering the mismanagement of globalisation, unfair trade agreements and current political and economic discontent, there is a stronger need for governments and companies to use vehicles such as offsets to create a relationship of trust and commitment for sustainable development. This book fills the gap in offsets and focuses on how to manage offsets more effectively by addressing issues of strategy, policy and implementation, technology management, governance and risk. Technology Offsets in International Defence Procurement is designed for those studying international procurement, international trade, international business, technology management, defence policy and industrial policy. This book will also be of interest to practitioners and policy makers in both government and industry.

Asymmetric Killing Neil C. Renic 2020-04-30 This book offers an engaging and historically informed account of the moral challenge of radically asymmetric violence — warfare conducted by one party in the near-complete absence of physical risk, across the full scope of a conflict zone. What role does physical risk and material threat play in the justifications for killing in war? And crucially, is there a point at which battlefield violence becomes so one-directional as to undermine the moral basis for its use? In order to answers these questions, *Asymmetric Killing* delves into the morally contested terrain of the warrior ethos and Just War Tradition, locating the historical and contemporary role of reciprocal risk within both. This book also engages two historical episodes of battlefield asymmetry, military sniping and manned aerial bombing. Both modes of violence generated an imbalance of risk between opponents so profound as to call into question their permissibility. These now-resolved controversies will then be contrasted with the UAV-exclusive violence of the United States, robotic killing conducted in the absence of a significant military ground presence in conflict theatres such as Pakistan, Yemen, and Somalia. As will be revealed, the radical asymmetry of this latter case is distinct, undermining reciprocal risk at the structural level of war. Beyond its more resolvable tension with the warrior ethos, UAV-exclusive violence represents a fundamental challenge to the very coherence of the moral justifications for killing in war.

Transfer Pricing Aspects of Intra-Group Financing Raffaele Petruzzi 2013-10-20 For corporate managers, maximization of the profits and the market value of the firm is a prime objective. The logical working out of this principle in multinational enterprises has led to an intense focus on transfer pricing between related companies, principally on account of the very attractive tax advantages made possible. Inevitably, numerous countries have established transfer pricing legislation designed to combat the distortions and manipulations that are inherent in such transactions. This important book, one of the first in-depth analysis of the current worldwide working of transfer pricing in intra-group financing and its resonance in law, presents the relevant issues related to loans, financial guarantees, and cash pooling; analyses an innovative possible approach to these issues; and describes new methodologies that can be implemented in practice in order to make intra-group financing more compliant with efficient corporate financing decisions and the generally accepted OECD arm's length principle. Comparing the tax measures implemented in the corporate tax law systems of forty countries, this study investigates such aspects of intra-group financing as the

following: - corporate finance theories, studies, and surveys regarding financing decisions; - application of the arm's length principle to limit the deductibility of interest expenses; - impact of the OECD's Base Erosion and Profit Shifting (BEPS) project; - transfer pricing issues related to intra-group financing; - credit risk in corporate finance; - rationales utilized by credit rating agencies; and - the assessment of arm's length nature of intra-group financing. The author describes ways in which the application of the arm's length principle can be strengthened and how the related risk of distortion and manipulation can be minimized. The solutions and methodologies proposed are applicable to any business sector. Given that determination of the arm's length nature of transactions between related companies is one of the most difficult tasks currently faced by taxpayers and tax administrations around the world, this thorough assessment and analysis will prove extraordinarily useful for in-house and advisory practitioners, corporate officers, academics, international organizations, and government officials charged with finding effective responses to the serious issues raised. In addition to its well-researched analysis, the book's comparative overview of how loans, financial guarantees, and cash pooling are currently addressed by OECD Member States and by their national courts is of great practical value in business decision making.

Safety, Reliability, Risk and Life-Cycle Performance of Structures and

Infrastructures George Deodatis 2014-02-10 Safety, Reliability, Risk and Life-Cycle Performance of Structures and Infrastructures contains the plenary lectures and papers presented at the 11th International Conference on STRUCTURAL SAFETY AND RELIABILITY (ICOSSAR2013, New York, NY, USA, 16-20 June 2013), and covers major aspects of safety, reliability, risk and life-cycle performance of str

Principles of Clinical Medicine for Space Flight Michael R. Barratt 2020-01-02 In its first edition, Principles of Clinical Medicine for Space Flight established itself as the authoritative reference on the contemporary knowledge base of space medicine and standards of care for space flyers. It received excellent notices and is used in the curricula of civilian and military training programs and used as a source of questions for the Aerospace Medicine Certifying Examination under the American Board of Preventive Medicine. In the intervening few years, the continuous manning of the International Space Station has both strengthened existing knowledge and uncovered new and significant phenomena related to the human in space. The Second Edition incorporates this information. Gaps in the first edition will be addressed with the addition new and revised chapters. This edition is extensively peer reviewed and represents the most up to date knowledge.

Understanding the Navstar Tom Logsdon 2013-03-14 The Navstar Global Positioning System (GPS) is being financed by military dollars, but the precise navigation signals it broadcasts are available free of charge to anyone, anywhere. Over the next ten years sponsors of Navstar navigation will be investing an estimated.

Professional Journal of the United States Army 2014

Selected papers from the 2019 IEEE International Workshop on Metrology for

AeroSpace Pasquale Daponte 2021-04-21 This book is devoted to recent developments of instrumentation and measurement techniques applied to the aerospace field. It includes 23 selected papers from the 2019 IEEE International Workshop on Metrology for AeroSpace.

Measurements are essential for obtaining a deeper knowledge of a phenomenon or an asset, as well as for making proper decisions and proposing new and efficient solutions, and this is especially true in environments as complex as aerospace. The research contributions included in the book can raise the interest of a wide group of researchers, operators and decision-makers from metrology and aerospace fields by presenting the most innovative solutions in this field from the scientific and technological points of view.

Digital Online Culture, Identity, and Schooling in the Twenty-First Century K. Rosenfeld 2015-01-15 Digital Online Culture, Identity and Schooling in the Twenty-First Century provides a cultural, ideological critique of identity construction in the context of virtualization. Kimberly Rosenfeld explores the growing number of people who no longer reside in one physical reality but live, work, and play in multiple realities. Rosenfeld's critique of neo-liberal practices in the digital environment brings to light the on-going hegemonic and counter-hegemonic battles over control of education in the digital age. Rosenfeld draws conclusions for empowering the population through schooling, and how it should understand, respond to, and help individuals live out the information revolution.

Proceedings of the 12th Reinventing Space Conference Scott Hatton 2016-12-25 The proceedings of the 2014 Reinventing Space conference present a number of questions in the context of a constantly innovating space industry, from addressing the future of global cooperation, investigating the impact of cuts in US government spending on the private space sector, and probing the overall future of the commercial launch sector. Space tourism and new technology promise the revival of interest in space development (the Apollo Era was the first period of intense space activity and growth). The need to create dramatically lower cost, responsive and reliable launch systems and spacecraft has never been more vital. Advances in technology are allowing smaller and cheaper satellites to be orbited - from cubesats to nanosatellites to femtosatellites. Thanks to more efficient new launch possibilities, low cost access to space is becoming ever more achievable. Commercial companies and countries are targeting the industry with new funding. Organised by the British Interplanetary Society, the presentations at this conference thoroughly address these challenges and opportunities.

International Aerospace Abstracts 1997

My excellent Interview Short listed Candidate for Chemists Post at SABIC, IBN ZHR, by www.sabic.com officials of IBN ZHR Saudi Arabia, , (in depth) with SABIC official Delegates on date 02 June 2013 ,02-06-2013 Ruhel Chisty MRACI CChem A

Human Factors in Aviation and Aerospace Joseph Keebler 2022-11-09 Human Factors in Aviation and Aerospace, Third Edition is written for the widespread aviation community, including students, engineers, scientists, pilots, managers, government personnel, etc. The book's editors offer essential breadth of experience on aviation human factors from multiple perspectives (i.e., scientific research, regulation, funding agencies, technology and implementation) as well as knowledge on the science. Beginning with more general topics, the book moves on to specific topics such as pilot performance, human factors in aircraft design, and vehicles and systems. Uses real-world case examples of dangers and solutions Includes a new chapter on cockpit resource management Examines future directions for

aviation psychology and human factors in aviation in two new separate chapters Emphasizes the international perspective

GPS Declassified Richard D. Easton 2013 GPS Declassified examines the development of GPS from its secret, Cold War military roots to its emergence as a worldwide consumer industry. Drawing on previously unexplored documents, the authors examine how military rivalries influenced the creation of GPS and shaped public perceptions about its origin. Since the United States' first program to launch a satellite in the late 1950s, the nation has pursued dual paths into space—one military and secret, the other scientific and public. Among the many commercial spinoffs this approach has produced, GPS arguably boasts the greatest impact on our.

Monthly Catalog of United States Government Publications United States. Superintendent of Documents 1960

Domestic Challenges and Global Competition in Aviation Manufacturing United States. Congress. Senate. Committee on Commerce, Science, and Transportation. Subcommittee on Aviation Operations, Safety, and Security 2015

Drone Operations: A Jurislogue 2015-02-15 Unmanned aerial systems, popularly known as drones, have been in the news for all sorts of reasons—good and bad. The media has focused equally on them for their use in hunting down terrorists and quickly eliminating them, as also for the inadvertent killing of innocent civilians and collateral damage to private property. Infringement of sovereignty is another pertinent area of international concern. Though historically associated with military missions, drones are increasingly proving their utility for internal security and disaster management. Lately, civilian and commercial uses are also proliferating. Indeed, drones have truly become a versatile flying platform. As an aerial machine, drones have started encroaching upon the common-user air space and are striving to integrate their operations with manned military aircraft and civil airliners. The problems of air traffic management and compliance of safety measures are formidable while civil and commercial uses infringe upon personal privacy and property rights. Third-party liability is another important issue for settlement. Comprehensive regulations to handle incumbent problems are not yet in place even as drones are racing ahead in technological development and operational mandates. This book will find interested audience among managers of aviation and air space, as well as persons from the Air Forces worldwide. It will also be of relevance to practising lawyers on air litigation, scholars of air law, as well as the aware layman.

Defending an Open, Global, Secure, and Resilient Internet Council on Foreign Relations 2013-06-01 The CFR-sponsored Independent Task Force report, *Defending an Open, Global, Secure, and Resilient Internet*, finds that as more people and services become interconnected and dependent on the Internet, societies are becoming increasingly vulnerable to cyberattacks. To support security, innovation, growth, and the free flow of information, the Task Force recommends that the United States and its partners work to build a cyber alliance, make the free flow of information a part of all future trade agreements, and articulate an inclusive and robust vision of Internet governance.

The Practitioner's Handbook of Project Performance Mark Phillips 2019-11-20 Practitioners

operate in a necessary reality. We work in a space where project performance is above theory or methodology. In the best environments, delivery and an affirmative culture are what matter most. In the worst, it is politics and survival. In any environment we are challenged to adopt best practices and adapt our style to the environment in which the project is occurring. This is a book about those best practices and practitioner experiences. It is a must have reference and guide book for project managers, general managers, business leaders and project management researchers. This book is the result of the hard work and dedication of more than 35 authors from more than 15 countries across four continents. It brings a diversity of experience, professional and personal. It includes practitioners, leading academics, renowned theorists and many who straddle those roles. The chapters cover experiences in software, large scale infrastructure projects, finance and health care, to name a few. The chapters themselves take many forms. Check out the table of contents to get a deeper sense of the topics included. All provide real-world guidance on delivering high performing projects and show you how to build, lead and manage high performing teams. The Practitioners Handbook of Project Performance is complete in itself. It can also be an enticing start to an ongoing dialogue with the authors and a pleasurable path to get deeper into the subject of project performance. Find your favorite place to begin learning from these chapters, to begin taking notes and taking away nuggets to use in your everyday. But don't stop there. Contact information and further resources for this diverse team of experts authors are found throughout. The Practitioners Handbook is a modern guide to the leading edge of project performance management and a path to the future of project delivery.

Magnesium Technology 2016 Alok Singh 2016-12-12 The Magnesium Technology Symposium, the event on which this collection is based, is one of the largest yearly gatherings of magnesium specialists in the world. Papers represent all aspects of the field, ranging from primary production to applications to recycling. Moreover, papers explore everything from basic research findings to industrialization. Magnesium Technology 2016 covers a broad spectrum of current topics, including alloys and their properties; cast products and processing; wrought products and processing; forming, joining, and machining; corrosion and surface finishing; ecology; and structural applications. In addition, there is coverage of new and emerging applications.

Introduction to Unmanned Aircraft Systems R. Kurt Barnhart 2021-03-04 Introduction to Unmanned Aircraft Systems, Third Edition surveys the basics of unmanned aircraft systems (UAS), from sensors, controls, and automation to regulations, safety procedures, and human factors. Featuring chapters by leading experts, this fully updated bestseller fills the need for an accessible and effective university textbook. Focussing on the civilian applications of UAS, the text begins with an historical overview of unmanned aerial vehicles, and proceeds to examine each major UAS subsystem. Its combination of understandable technical coverage and up-to-date information on policy and regulation makes the text appropriate for both Aerospace Engineering and Aviation programs.

Neuroscience perspectives on Security: Technology, Detection, and Decision Making Elena Rusconi 2015-08-03 In security science, efficient operation depends typically on the interaction between technology, human and machine detection and human and machine decision making. A perfect example of this interplay is 'gatekeeping', which is aimed to prevent the passage of people and objects that represent known threats from one end to the other end of an access point. Gatekeeping is most often achieved via visual inspections, mass

screening, random sample probing and/or more targeted controls on attempted passages at points of entry. Points of entry may be physical (e.g. national borders) or virtual (e.g. connection log-ons). Who and what are defined as security threats and the resources available to gatekeepers determine the type of checks and technologies that are put in place to ensure appropriate access control. More often than not, the net performance of technology-aided screening and authentication systems ultimately depends on the characteristics of human operators. Assessing cognitive, affective, behavioural, perceptual and brain processes that may affect gatekeepers while undertaking this task is fundamental. On the other hand, assessing the same processes in those individuals who try to breach access to secure systems (e.g. hackers), and try to cheat controls (e.g. smugglers) is equally fundamental and challenging. From a security standpoint it is vital to be able to anticipate, focus on and correctly interpret the signals connected with such attempts to breach access and/or elude controls, in order to be proactive and to enact appropriate responses. Knowing cognitive, behavioral, social and neural constraints that may affect the security enterprise will undoubtedly result in a more effective deployment of existing human and technological resources. Studying how inter-observer variability, human factors and biology may affect the security agenda, and the usability of existing security technologies, is of great economic and policy interest. In addition, brain sciences may suggest the possibility of novel methods of surveillance and intelligence gathering. This is just one example of a typical security issue that may be fruitfully tackled from a neuroscientific and interdisciplinary perspective. The objective of our Research Topic was to document across relevant disciplines some of the most recent developments, ideas, methods and empirical findings that have the potential to expand our knowledge of the human factors involved in the security process. To this end we welcomed empirical contributions using different methodologies such as those applied in human cognitive neuroscience, biometrics and ethology. We also accepted original theoretical contributions, in the form of review articles, perspectives or opinion papers on this topic. The submissions brought together researchers from different backgrounds to discuss topics which have scientific, applicative and social relevance.

Scientific and Technical Aerospace Reports 1995 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database.

Machine Learning in Industry Shubhabrata Datta 2021-07-24 This book covers different machine learning techniques such as artificial neural network, support vector machine, rough set theory and deep learning. It points out the difference between the techniques and their suitability for specific applications. This book also describes different applications of machine learning techniques for industrial problems. The book includes several case studies, helping researchers in academia and industries aspiring to use machine learning for solving practical industrial problems.

Military Review 2014

The Aerospace Supply Chain and Cyber Security Kirsten M Koepsel 2018-07-20 The Aerospace Supply Chain and Cyber Security - Challenges Ahead looks at the current state of commercial aviation and cyber security, how information technology and its attractiveness to cyber attacks is affecting it, and the way supply chains have become a vital part of the industry's cyber-security strategy. More than ever before, commercial aviation relies on

information and communications technology. Some examples of this include the use of e-tickets by passengers, electronic flight bags by pilots, wireless web access in flight, not to mention the thousands of sensors throughout the aircraft constantly gathering and sharing data with the crew on the ground. The same way technology opens the doors for speed, efficiency and convenience, it also offers the unintended opportunity for malicious cyber attacks, with threat agents becoming bolder and choosing any possible apertures to breach security. Supply chains are now being seriously targeted as a pathway to the vital core of organizations around the world. Written in a direct and informative way, *The Aerospace Supply Chain and Cyber Security - Challenges Ahead* discusses the importance of deeply mapping one's supply chain to identify risky suppliers or potential disruptions, developing supplier monitoring programs to identify critical suppliers, and identifying alternative sources for IT/ICT products or components, to name a few of the necessary actions to be taken by the industry. *The Aerospace Supply Chain and Cyber Security - Challenges Ahead* also discusses the standardization of communications platforms and its pitfalls, the invisible costs associated with cyber attacks, how to identify vulnerabilities of the supply chain, and what future scenarios are likely to play out in this arena. For those interested in the many aspects of cyber security, *The Aerospace Supply Chain and Cyber Security - Challenges Ahead* is a must-read.

ECCWS 2018 17th European Conference on Cyber Warfare and Security V2 Audun Jøsang 2018-06-21

Parliamentary Debates (Hansard). Great Britain. Parliament. House of Commons 2013

An Introduction to the Modern Middle East, Student Economy Edition David Sorenson 2018-10-03 This book introduces the politics of the modern Middle East, which includes the countries of the Persian Gulf, the eastern Mediterranean countries, and North Africa. It covers the major geographical regions that make up the Middle East, and summarizes the post-World War I history of the Middle East.

A Modern Course in Aeroelasticity Howard C. Curtiss Jr. 2013-11-11 A reader who achieves a substantial command of the material contained in this book should be able to read with understanding most of the literature in the field. Possible exceptions may be certain special aspects of the subject such as the aeroelasticity of plates and shells or the use of electronic feedback control to modify aeroelastic behavior. The first author has considered the former topic in a separate volume. The latter topic is also deserving of a separate volume. In the first portion of the book the basic physical phenomena of divergence, control surface effectiveness, flutter and gust response of aeronautical vehicles are treated. As an indication of the expanding scope of the field, representative examples are also drawn from the non-aeronautical literature. To aid the student who is encountering these phenomena for the first time, each is introduced in the context of a simple physical model and then reconsidered systematically in more complicated models using more sophisticated mathematics.