

Defence Capability Development Handbook 2014

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Handbook of Military Psychology - Stephen V.

Bowles 2017-12-05

This expert compendium surveys the current state of military psychology across the branches of service at the clinical, research, consulting, and organizational levels. Its practical focus examines psychological adjustment pre- and post-deployment, commonly-encountered

conditions (e.g., substance abuse), and the promotion of well-being, sleep, mindfulness, and resilience training.

Coverage pays particular attention to uses of psychology in selection and assessment of service personnel in specialized positions, and training concerns for clinicians and students choosing to work with the military community. Chapters also address topics of

particular salience to a socially conscious military, including PTSD, sexual harassment and assault, women's and LGBT issues, suicide prevention, and professional ethics. Among the specific chapters topics covered:

- Military deployment psychology: psychologists in the forward environment.
- Stress and resilience in married military couples.
- Assessment and selection of high-risk operational personnel: processes, procedures, and underlying theoretical constructs.
- Understanding and addressing sexual harassment and sexual assault in the US military.
- Virtual reality applications for the assessment and treatment of PTSD.
- Plus international perspectives on military psychology from China, Australia, India, and more.

Grounding its readers in up-to-date research and practice, *Military Psychology* will assist health psychologists, clinical psychologists, psychiatrists, and clinical social workers in understanding and providing treatment for military

populations, veterans, and their families, as well as military psychologists in leadership and consulting positions.

Capability Management Guide -
Matthias Wißotzki 2017-08-08

This book investigates what enterprises can do and/or what should it be capable of in order to accelerate organizational changes. Therefore, a capability-based method is developed, which assists in the identification, structuring and management of capabilities. The approach is embedded in a process comprising four building blocks that provide appropriate procedures, concepts and supporting tools evolved from theory and practical use cases. The guide represents a flexible method for capability newcomers and experienced audiences to optimize enterprises' economic impacts of EAM supporting the alignment of business and IT.

**The Emergence of EU
Defense Research Policy** -

Nikolaos Karampekios
2017-11-16

This book explores European

security and defense R&D policy, unveiling the strategic, industrial, institutional and ideational sources of the European Commission's military research initiative. Starting from a well-defined empirical epicentre—the rise of non-civilian R&D priorities in the European Union—this book covers interrelated themes and topics such as approaches to arms production and R&D collaboration relationships between European R&D-related institutions technology and research foundations of European security policy past and present European armament collaborations transatlantic R&D collaboration the militarization of border security. Divided into 5 sections, the enclosed chapters explore the EU technology and innovation policy in regards to security, industrial competitiveness and military capabilities. The terrorist attacks in the US on September 11, 2001 provided a window of opportunity for the introduction of security as a distinct European R&D

priority. In fact, since 2002, the Preparatory Action for Security Research (PASR) has funded 45 million euros to 39 research consortia to conduct security R&D. While the idea of pooling defense research efforts and programmes in Europe is not new, the establishment of institutions like the European Defense Agency (EDA) are a major step into institutionalizing European agencies involvement in supporting defense technology research. It is against this backdrop of policy developments that this book is positioned, in addition to addressing some of the political, economic, industrial and philosophical questions that arise. Featuring contributions from a variety of academic fields and industries, this book will be of interest to scholars, researchers, students and policy makers in the fields of security policy, international relations, innovation, European studies and military studies.

The Oxford Handbook of Women, Peace, and Security

- Sara E. Davies 2018-12-11

Passed in 2000, the United Nations Security Council Resolution 1325 and subsequent seven Resolutions make up the Women, Peace, and Security (WPS) agenda. This agenda is a significant international normative and policy framework addressing the gender-specific impacts of conflict on women and girls, including protection against sexual and gender-based violence, promotion of women's participation in peace and security processes, and support for women's roles as peace builders in the prevention of conflict and rebuilding of societies after conflict. Implementation within and across states and international organizations - and within peace and security operations - has been slow despite significant transnational advocacy in support of the WPS agenda. The Oxford Handbook of Women, Peace, and Security brings together scholars, advocates, and policymakers to provide an overview of what we know concerning what works to promote women's

participation in peace and security, what works to protect women and girls from sexual and gender-based violence and other human rights violations, and what works to prevent conflict drawing on women's experiences and knowledge of building peace from local to global levels. Just as importantly, it addresses the gaps in knowledge on and the future direction of scholarship on WPS. The handbook particularly aims to build on the findings from the 2015 Global Study of Resolution 1325, commissioned by the UN-Secretary General. Over the course of six sections, the handbook addresses the concepts and early history behind WPS; the theory and practice of WPS; international institutions involved with the WPS agenda; the implementation of WPS in conflict prevention, peace operations, peace building, arms control, human-rights protection, and protection of civilians; connections between WPS and other UN resolutions and agendas; and the ongoing

and future challenges of WPS.

The British Army Guide, 2016-2017 - Charles Heyman
2015-11-30

In 1984 the first edition of the British Army Guide was published and in September 2015 the 13th edition will be on sale. This invaluable information resource which deals with all aspects of British Army organisation, recruitment and training has been extremely popular with service personnel, the defence industry, military libraries and other groups who are interested in the British Army worldwide. Copies can be seen on desks throughout the UK Ministry of Defence and it would be fair to say that almost every foreign defence attache in London has a copy in his briefcase. Chapters include a Defence Overview; Army Organisation; International Commitments; Armour, Infantry, Artillery, Army Aviation, Engineers, Communications and Combat Service Support; Units of the Army; Recruiting and Training; Reserve Forces plus a final

Miscellaneous Chapter which deals with a number of items essential to understanding How the British Army functions on a daily basis. Lavishly illustrated throughout there is no comparable publication available on the market.

Routledge Handbook of Terrorism and Counterterrorism - Andrew Silke
2018-09-03

This new Handbook provides a comprehensive, state-of-the-art overview of current knowledge and debates on terrorism and counterterrorism, as well as providing a benchmark for future research. The attacks of 9/11 and the 'global war on terror' and its various legacies have dominated international politics in the opening decades of the 21st century. In response to the dramatic rise of terrorism, within the public eye and the academic world, the need for an accessible and comprehensive overview of these controversial issues remains profound. The Routledge Handbook of Terrorism and Counterterrorism seeks to fulfil

this need. The volume is divided into two key parts: Part I: Terrorism: This section provides an overview of terrorism, covering the history of terrorism, its causes and characteristics, major tactics and strategies, major trends and critical contemporary issues such as radicalisation and cyber-terrorism. It concludes with a series of detailed case studies, including the IRA, Hamas and Islamic State. Part II: Counterterrorism: This part draws on the main themes and critical issues surrounding counterterrorism. It covers the major strategies and policies, key events and trends and the impact and effectiveness of different approaches. This section also concludes with a series of case studies focused on major counterterrorism campaigns. This book will be of great interest to all students of terrorism and counterterrorism, political violence, counter-insurgency, criminology, war and conflict studies, security studies and IR more generally.

Military Veteran Reintegration
- Carl Castro 2019-08-21
Military Veteran Reintegration: Approach, Management, and Assessment of Military Veterans Transitioning to Civilian Life offers a toolkit for researchers and practitioners on best practices for easing the reintegration of military veterans returning to civilian society. It lays out how transition occurs, identifies factors that promote or impede transition, and operationalizes outcomes associated with transition success. Bringing together experts from around the world to address the most important aspects of military transition, the book looks at what has been shown to work and what has not, while also offering a roadmap for best-results moving forward. Contains evidence-based interventions for military veteran-to-civilian transition Features international experts from North America, Europe and Asia Includes how to measure transition outcomes Outlines recovery programs for the injured and sick Identifies

factors that promote or impede successful transition

Latvia Country Study Guide Volume 1 Strategic Information and Developments - IBP USA
2012-03-03

Latvia Country Study Guide - Strategic Information and Developments Volume 1 Strategic Information and Developments

Conference proceedings - XLVI International Symposium on Operational Research SYMOPIS 2019 -

Milan Martić 2019-11-18
The Faculty of Organizational Sciences, University of Belgrade traditionally, in cooperation with other higher education and scientific institutions and associations, organizes a SYM-OP-IS symposium to advance the theory and practice of operational research, business analytics and related disciplines. This year, the 46th Symposium on Operations Research - SYM-OP-IS is being organized as an international scientific conference. The symposium brings together domestic and international

academic and scientific public, OR practitioners, public and non-governmental sector, as well as students who participate in discussing and analyzing relevant issues in the field of contemporary operational research. The aim of the Symposium is to provide a unique forum for discussion of current issues and exchange of the latest information, ideas and innovative solutions in the field of operational research in the context of improving business achievements and results. Authors have the opportunity to publish scientific and professional results as research papers or case studies. This year's conference program is organized through thematic sessions and consists of 132 papers by authors from 10 countries. In addition to thematic sections, plenary lectures of eminent scientists in the field of business intelligence data science, efficiency measurement and behavioral operational research will be held as well as a forum on "International

Projects in Science and Education". Scientific Committee Chair Milan Martić

Fakultet organizacionih nauka Univerziteta u Beogradu tradicionalno u saradnji sa drugim visokoškolskim i naučnoistraživačkim organizacijama, kao i naučnim udruženjima, organizuje simpozijum SYM-OP-IS sa ciljem unapređenja teorije i prakse operacionih istraživanja, poslovne analitike i srodnih disciplina. Ove godine se organizuje 46. simpozijum operacionih istraživanja - SYM-OP-IS kao međunarodni naučni skup. Simpozijum okuplja domaću i međunarodnu akademsku i naučnu javnost, predstavnike korporativnog, javnog i nevladinog sektora, kao i studente osnovnih, masterskih i doktorskih studija koji kroz predstavljanje svojih dosadašnjih rezultata, saznanja i iskustava učestvuju u razmatranju i analizi relevantnih pitanja iz oblasti

savremenih operacionih istraživanja. Cilj Simpozijuma je da obezbedi jedinstven forum za diskusiju o aktuelnim pitanjima i razmenu najnovijih informacija, ideja i inovativnih rešenja u oblasti operacionih istraživanja menadžmenta u kontekstu unapređenja poslovnih dostignuća i rezultata. Autori imaju mogućnost da naučne i stručne rezultate publikuju kao istraživačke radove ili studije slučaja. Ovogodišnji program konferencije je organizovan kroz tematske sesije i sastoji se iz 132 rada autora iz 10 zemalja. Uz tematske sekcije, biće održana i plenarna predavanja eminentnih naučnika iz oblasti nauke o podacima poslovne analitike, merenja efikasnosti i bihevijoralnih operacionih istraživanja kao i forum na temu "Međunarodni projekti u nauci i prosveti". Predsednik Programskog odbora Milan Martić

Handbook of Research on Military Expenditure on Economic and Political Resources - Das, Ramesh

Chandra 2018-05-25

As many countries have increased their budgets to allow for newer technologies and a stronger military force, defense spending has become a popular debate topic around the world. As such, it is vital to understand the interplay between the military expenditure and economic growth and development across countries. The Handbook of Research on Military Expenditure on Economic and Political Resources is a critical scholarly publication that explores the interplay between the military expenditure and economic growth and development across countries. Featuring coverage on a wide range of topics such as defense management, economic growth, and dynamic panel model, this publication is geared towards academicians, researchers, and professionals seeking current research on the interplay between the military expenditure and economic growth and development across countries.

Research Handbook on the Belt and Road Initiative -

Chinyong Liow, Joseph
2021-10-26

This timely Research Handbook investigates the radically transformative impact of the Belt and Road Initiative (BRI), addressing key questions regarding its economic, political and strategic consequences: what does the Chinese government hope to achieve with the BRI? How have recipient states responded? And what are its potential opportunities and risks?

Emerging Strategies in Defense Acquisitions and Military Procurement -

Burgess, Kevin 2016-07-22

Military and defense organizations are a vital component to any nation. In order to maintain the standards of these sectors, new procedures and practices must be implemented. *Emerging Strategies in Defense Acquisitions and Military Procurement* is a pivotal reference source for the latest scholarly research on the

present state of defense organizations, examining reforms and solutions necessary to overcome current limitations and make vast improvements to their infrastructure. Highlighting methodologies and theoretical foundations that promote more effective practices in defense acquisition, this book is ideally designed for academicians, practitioners, researchers, upper-level students, and professionals engaged in defense industries.

The SAGE Handbook of Mentoring - David A.

Clutterbuck 2017-02-09

The definitive reference resource for mentoring courses and affiliated courses in business and management, health, education, psychology, counselling and psychotherapy.

The Routledge Handbook of European Integrations -

Thomas Hoerber 2022-02-28

The Routledge Handbook of European Integrations fills a significant gap in the European studies literature by providing crucial and groundbreaking coverage of several key areas

that are usually neglected or excluded in European integration collections. Whilst still examining the largest and most influential institutions, bodies and highly-funded policy areas as acknowledged dominant topics in European studies, it crucially does so with much greater balance by devoting equal billing to areas such as culture in European integration or new technologies and their impact on the EU. Organised around three main sections - culture, technology and 'tangibles' - the book: offers an authoritative 'encyclopaedia' to 'alternative' areas in European integration, from media, football, Erasmus and tourism, to transport, space, AI and energy; retains coverage of the dominant topics in European studies, such as the Eurozone, the Common Internal Market, or European law, but in balance with other areas of interest; and provides an essential companion to existing scholarship in European studies. The Routledge Handbook of European

Integrations is essential reading and an authoritative reference for scholars, students, researchers and practitioners involved in, and actively concerned about, research in the study of European integration/studies. *The Oxford Guide to International Humanitarian Law* - Ben Saul 2020-05-07 International humanitarian law is the law that governs the conduct of participants during armed conflict. This branch of law aims to regulate the means and methods of warfare as well as to provide protections to those who do not, or who no longer, take part in the hostilities. It is one of the oldest branches of international law and one of enduring relevance today. The Oxford Guide to International Humanitarian Law provides a practical yet sophisticated overview of this important area of law. Written by a stellar line up of contributors, drawn from those who not only have extensive practical experience but who are also regarded as leading scholars of the subject,

the text offers a comprehensive and authoritative exposition of the field. The Guide provides professionals and advanced students with information and analysis of sufficient depth to enable them to perform their tasks with understanding and confidence. Each chapter illuminates how the law applies in practice, but does not shy away from the important conceptual issues that underpin how the law has developed. It will serve as a first port of call and a regular reference work for those interested in international humanitarian law.

A Guide to Defense Contracting

- Dan Lindner 2019-06-28

The author of the well-received, *A Guide to Federal Contracting*, Dan Lindner provides in one volume, a succinct yet thorough treatment of Defense contracting requirements and regulations.

Advances in Production Management Systems. Artificial Intelligence for Sustainable and Resilient Production Systems -

Alexandre Dolgui 2021-09-01
The five-volume set IFIP AICT 630, 631, 632, 633, and 634 constitutes the refereed proceedings of the International IFIP WG 5.7 Conference on Advances in Production Management Systems, APMS 2021, held in Nantes, France, in September 2021.* The 378 papers presented were carefully reviewed and selected from 529 submissions. They discuss artificial intelligence techniques, decision aid and new and renewed paradigms for sustainable and resilient production systems at four-wall factory and value chain levels. The papers are organized in the following topical sections: Part I: artificial intelligence based optimization techniques for demand-driven manufacturing; hybrid approaches for production planning and scheduling; intelligent systems for manufacturing planning and control in the industry 4.0; learning and robust decision support systems for agile manufacturing environments;

low-code and model-driven engineering for production system; meta-heuristics and optimization techniques for energy-oriented manufacturing systems; metaheuristics for production systems; modern analytics and new AI-based smart techniques for replenishment and production planning under uncertainty; system identification for manufacturing control applications; and the future of lean thinking and practice Part II: digital transformation of SME manufacturers: the crucial role of standard; digital transformations towards supply chain resiliency; engineering of smart-product-service-systems of the future; lean and Six Sigma in services healthcare; new trends and challenges in reconfigurable, flexible or agile production system; production management in food supply chains; and sustainability in production planning and lot-sizing Part III: autonomous robots in delivery logistics; digital transformation approaches in production management; finance-driven

supply chain; gastronomic service system design; modern scheduling and applications in industry 4.0; recent advances in sustainable manufacturing; regular session: green production and circularity concepts; regular session: improvement models and methods for green and innovative systems; regular session: supply chain and routing management; regular session: robotics and human aspects; regular session: classification and data management methods; smart supply chain and production in society 5.0 era; and supply chain risk management under coronavirus Part IV: AI for resilience in global supply chain networks in the context of pandemic disruptions; blockchain in the operations and supply chain management; data-based services as key enablers for smart products, manufacturing and assembly; data-driven methods for supply chain optimization; digital twins based on systems engineering and semantic modeling; digital twins in

companies first developments and future challenges; human-centered artificial intelligence in smart manufacturing for the operator 4.0; operations management in engineer-to-order manufacturing; product and asset life cycle management for smart and sustainable manufacturing systems; robotics technologies for control, smart manufacturing and logistics; serious games analytics: improving games and learning support; smart and sustainable production and supply chains; smart methods and techniques for sustainable supply chain management; the new digital lean manufacturing paradigm; and the role of emerging technologies in disaster relief operations: lessons from COVID-19 Part V: data-driven platforms and applications in production and logistics: digital twins and AI for sustainability; regular session: new approaches for routing problem solving; regular session: improvement of design and operation of manufacturing systems; regular session:

crossdock and transportation issues; regular session: maintenance improvement and lifecycle management; regular session: additive manufacturing and mass customization; regular session: frameworks and conceptual modelling for systems and services efficiency; regular session: optimization of production and transportation systems; regular session: optimization of supply chain agility and reconfigurability; regular session: advanced modelling approaches; regular session: simulation and optimization of systems performances; regular session: AI-based approaches for quality and performance improvement of production systems; and regular session: risk and performance management of supply chains

*The conference was held online.

Defence Industrial Cooperation in the European Union - Daniel Fiott 2019-03-28

This book provides an empirical understanding of how EU-level defence

industrial cooperation functions in practice. Using the Liberal Intergovernmental theoretical model, the book argues that while national economic preferences are an essential factor of government interests they only explain part of the dynamic that leads to the development of defence industrial policy at EU level. Moving beyond a simple adumbration of economic preferences, it shows how the EU's institutional framework and corpus of law are used by governments to reaffirm their position as the ultimate arbiter and promoter of national economic preferences in the defence industrial sector. To this end, the work asks why and how EU member state governments, European defence firms, and EU institutions developed EU-level defence industrial policy between 2003 and 2009. The book also analyses significant policy developments, including the establishment of a European Defence Agency and two EU Directives on equipment transfers and

defence procurement. This book will be of much interest to students of EU policy, defence studies, security studies and International Relations in general.

Handbook of Defence Electronics and Optronics -

Anil K. Maini 2018-03-26

Handbook of Defence

Electronics and Optronics Anil

K. Maini, Former Director,

Laser Science and Technology

Centre, India First complete

reference on defence

electronics and optronics

Fundamentals, Technologies

and Systems This book

provides a complete account of

defence electronics and

optronics. The content is

broadly divided into three

categories: topics specific to

defence electronics; topics

relevant to defence optronics;

and topics that have both

electronics and optronics

counterparts. The book covers

each of the topics in their

entirety from fundamentals to

advanced concepts, military

systems in use and related

technologies, thereby leading

the reader logically from the

operational basics of military

systems to involved

technologies and battlefield

deployment and applications.

Key features: • Covers

fundamentals, operational

aspects, involved technologies

and application potential of a

large cross-section of military

systems. Discusses emerging

technology trends and

development and deployment

status of next generation

military systems wherever

applicable in each category of

military systems. • Amply

illustrated with approximately

1000 diagrams and

photographs and around 30

tables. • Includes salient

features, technologies and

deployment aspects of

hundreds of military systems,

including: military radios;

ground and surveillance

radars; laser range finder and

target designators; night

visions devices; EW and EO

jammers; laser guided

munitions; and military

communications equipment

and satellites. Handbook of

Defence Electronics and Optronics is an essential guide

for graduate students, R&D scientists, engineers engaged in manufacturing defence equipment and professionals handling the operation and maintenance of these systems in the Armed Forces.

NATO and Collective Defence in the 21st Century

- Karsten Friis 2017-02-17

This book presents a cutting-edge assessment of NATO's collective defence strategies in the immediate aftermath of the July 2016 NATO Warsaw Summit. Collective defence and deterrence came back on the agenda at the 2014 Wales Summit following the Russian annexation of Crimea, and was in many respects a game changer for NATO. The Warsaw Summit was a follow-up and operationalization of the Wales Summit, as well as adding further initiatives to the agenda. But is NATO delivering? This book provides a thorough assessment of the on-going debates and discussions taking place within and outside of NATO in Europe and North America. In its return to deterrence, NATO is

confronted with challenges relating to strategic thinking, capability development, and the role of nuclear weapons. It has also raised questions about the future prospects for NATO membership for countries such as Sweden and Finland, with broader implications for the security situation in the Baltic region. Central to all this is of course NATO's relationship with Russia and questions of a new security dilemma, in turning bringing to the fore the challenge of maintaining an appropriate balance between deterrence and dialogue. The chapters in this volume address these questions and provide a much-needed analysis of the results of the NATO Warsaw Summit. This book will be of interest to policymakers and students of NATO, international security, European Politics, security studies and IR in general.

The Political Economy of Defence - Ron Matthews

2019-05-09

A contemporary and comprehensive analysis of national and supranational

defence governance in an uncertain and increasingly dangerous world. This book will appeal to policymakers, analysts, graduate students and academics interested in defence economics, political economy, public economics and public policy.

Understanding UK Military Capability - Andrew R. Curtis
2022-11-23

Between 2021 and 2031, the UK government is set to spend over £230 billion on its military. Who decides how to use these funds, and how can we be sure that the UK's armed forces can meet the threats of tomorrow? This book provides the answers to these crucial questions. Concentrating on decisions taken below the political level, it uncovers the factors that underpin the translation of strategic direction into military capability. In a series of interviews, over 30 top admirals, generals and air marshals give their own views on the procurement and maintenance of the nation's current and future military

capability. Their unrivalled professional knowledge and experience affords a fascinating insight into the higher management of national defence.

Handbook of Systems Engineering and Risk Management in Control Systems, Communication, Space Technology, Missile, Security and Defense Operations - Anna M. Doro-on
2022-09-27

This book provides multifaceted components and full practical perspectives of systems engineering and risk management in security and defense operations with a focus on infrastructure and manpower control systems, missile design, space technology, satellites, intercontinental ballistic missiles, and space security. While there are many existing selections of systems engineering and risk management textbooks, there is no existing work that connects systems engineering and risk management concepts to solidify its usability in the

entire security and defense actions. With this book Dr. Anna M. Doro-on rectifies the current imbalance. She provides a comprehensive overview of systems engineering and risk management before moving to deeper practical engineering principles integrated with newly developed concepts and examples based on industry and government methodologies. The chapters also cover related points including design principles for defeating and deactivating improvised explosive devices and land mines and security measures against kinds of threats. The book is designed for systems engineers in practice, political risk professionals, managers, policy makers, engineers in other engineering fields, scientists, decision makers in industry and government and to serve as a reference work in systems engineering and risk management courses with focus on security and defense operations.

US National Security

Reform - Heidi B. Demarest
2018-07-12

This collection of essays considers the evolution of American institutions and processes for forming and implementing US national security policy, and offers diverse policy prescriptions for reform to confront an evolving and uncertain security environment. Twelve renowned scholars and practitioners of US national security policy take up the question of whether the national security institutions we have are the ones we need to confront an uncertain future. Topics include a characterization of future threats to national security, organizational structure and leadership of national security bureaucracies, the role of the US Congress in national security policy making and oversight, and the importance of strategic planning within the national security enterprise. The book concludes with concrete recommendations for policy makers, most of which can be accomplished under the

existing and enduring National Security Act. This book will be of much interest to students of US national security, US foreign policy, Cold War studies, public policy and IR in general.

Defense Innovation

Handbook - Adedeji B. Badiru
2018-09-03

Innovation is the lifeline of national development. This handbook is a collection of chapters that provide techniques and methodologies for achieving the transfer of defense-targeted science and technology development for general industrial applications. The handbook shows how to translate theory and ideas into practical applications. Experts from national defense institutions, government laboratories, business, and industry contributed chapters to this handbook. The handbook also serves as an archival guide for nations, communities, and businesses expecting to embark upon science and technology transfer to industry. Included are several domestic and

international case examples of practical innovation. Since the dawn of history, nations have engrossed themselves in developing new tools, techniques, and methodologies to protect their geographical boundaries. From the crude implements used by prehistorical people to very modern technologies, the end game has been the same. That is, to protect the homeland. Even in times of peace, efforts must be made to develop new machinery, equipment, processes, and devices targeted for the protection of the nation. The emergence of organized nations and structured communities facilitated even more innovative techniques of national defense. Evolution, revolution, and innovation have defined human existence for millennia. From the Ice Age to the Stone Age, the Bronze Age, the Iron Age, and to the modern age, innovation, rudimentary as it may be in many cases, has determined how humans move from one stage to the next. This

comprehensive handbook provides a clear guide on the nuances of initiating and actualizing innovation. Both the qualitative and quantitative aspects of innovation are covered in the handbook.

Features: Uses a systems framework to zero in on science and technology transfer Focuses on leveraging technical developments in defense organizations for general societal applications Coalesces the transfer strategies collated from various sources and practical applications Represents a world-class diverse collection of science and technology development, utilization, and transfer Highlights a strategy for government, academia, and industry partnerships

Proceedings of the XIV INTERNATIONAL SYMPOSIUM SYMORG 2014 - Aleksandar Marković
2014-06-05

The Legality and Accountability of Autonomous Weapon Systems - Afonso Seixas-Nunes
2022-05-19

A comprehensive definition of autonomous weapons systems and their operation and what happens when they cause violations of international law.

New Directions in Japan's Security - Paul Midford
2020-09-07

While the US-Japan alliance has strengthened since the end of the Cold War, Japan has, almost unnoticed, been building security ties with other partners, in the process reducing the centrality of the US in Japan's security. This book explains why this is happening. Japan pursued security isolationism during the Cold War, but the US was the exception. Japan hosted US bases and held joint military exercises even while shunning contacts with other militaries. Japan also made an exception to its weapons export ban to allow exports to the US. Yet, since the end of the Cold War, Japan's security has undergone a quiet transformation, moving away from a singular focus on the US as its sole security partner. Tokyo has begun diversifying its security ties.

This book traces and explains this diversification. The country has initiated security dialogues with Asian neighbors, assumed a leadership role in promoting regional multilateral security cooperation, and begun building bilateral security ties with a range of partners, from Australia and India to the European Union. Japan has even lifted its ban on weapons exports and co-development with non-US partners. This edited volume explores this trend of decreasing US centrality alongside the continued, and perhaps even growing, security (inter)dependence with the US. *New Directions in Japan's Security* is an essential resource for scholars focused on Japan's national security. It will also interest on a wider basis those wishing to understand why Japan is developing non-American directions in its security strategy.

The Routledge Handbook of European Security Law and Policy - E. Conde 2019-10-31
The Handbook of European

Security Law and Policy offers a holistic discussion of the contemporary challenges to the security of the European Union and emphasizes the complexity of dealing with these through legislation and policy.

Considering security from a human perspective, the book opens with a general introduction to the key issues in European Security Law and Policy before delving into three main areas. Institutions, policies and mechanisms used by Security, Defence Policy and Internal Affairs form the conceptual framework of the book; at the same time, an extensive analysis of the risks and challenges facing the EU, including threats to human rights and sustainability, as well as the European Union's legal and political response to these challenges, is provided. This Handbook is essential reading for scholars and students of European law, security law, EU law and interdisciplinary legal and political studies.

[Routledge Handbook of Counterterrorism and](#)

Counterinsurgency in Africa -

Usman A. Tar 2021-01-29

This book illustrates how Africa's defence and security domains have been radically altered by drastic changes in world politics and local ramifications. First, the contributions of numerous authors highlight the transnational dimensions of counterterrorism and counterinsurgency in Africa and reveal the roles played by African states and regional organisations in the global war on terror. Second, the volume critically evaluates the emerging regional architectures of countering terrorism, insurgency, and organised violence on the continent through the African Union Counterterrorism Framework (AU-CTF) and Regional Security Complexes (RSC). Third, the book sheds light on the counterterrorism and counterinsurgency (CT-COIN) structures and mechanisms established by specific African states to contain, degrade, and eliminate terrorism, insurgency, and

organised violence on the continent, particularly the successes, constraints, and challenges of the emerging CT-COIN mechanisms. Finally, the volume highlights the entry of non-state actors - such as civil society, volunteer groups, private security companies, and defence contractors - into the theatre of counterterrorism and counterinsurgency in Africa through volunteerism, community support for state-led CT-COIN Operations, and civil-military cooperation (CIMIC). This book will be of use to students and scholars of security studies, African studies, international relations, and terrorism studies, and to practitioners of development, defence, security, and strategy.

The Handbook of European Defence Policies and Armed Forces - Hugo Meijer 2018

This volume provides the first geographically and thematically comprehensive study of the evolution and current state of the national security and defence policies, strategies, doctrines, capabilities, and military

operations, as well as the alliances and security partnerships, of European armed forces.

Ciottone's Disaster Medicine - E-Book - Gregory R. Ciottone
2023-03-07

While medical specialists in disaster mitigation, preparedness, and response are needed worldwide, the initial phase of disaster response is almost entirely dependent upon local resources—making it essential that all healthcare personnel have a working knowledge of the field and stand ready to integrate into the response system. Ciottone's Disaster Medicine, 3rd Edition, is the most comprehensive reference available to help accomplish these goals in every community. It thoroughly covers isolated domestic events as well as global disasters and humanitarian crises. Dr. Gregory Ciottone and more than 200 worldwide authorities share their knowledge and expertise on the preparation, assessment, and management of both natural and man-made

disasters, including lessons learned by the responders to contemporary disasters such as the COVID-19 pandemic, Australian and western U.S. wildfires, European heatwaves, the Beirut explosion, recent hurricanes and typhoons, and the global refugee crisis. Part 1 offers an A-to-Z resource for every aspect of disaster medicine and management, while Part 2 features an exhaustive compilation of every conceivable disaster event, organized to facilitate quick reference in a real-time setting. Covers basic concepts such as identification of risks, organizational preparedness, equipment planning, disaster education and training, and more advanced concepts such as disaster risk reduction, health in complex emergencies, building local disaster resiliency, psychological impact of disasters on children, and more. Contains new decision trees throughout that help guide you through the decision-making process in difficult situations. Uses an easy-to-follow, templated

approach to historical perspectives, overviews of current practice including pre-incident and post-incident actions, medical treatment of casualties, and potential pitfalls. Includes updated sections on man-made disasters, including mass casualties, active shooter situations, integrated response to terrorist attacks, and chemical/biological/radiological/nuclear/high-yield explosives disasters. Discusses the latest technologies, such as the use of mobile disaster applications, drone response systems, and virtual reality simulation training. Features thoroughly updated information on crisis leadership, practical applications of disaster epidemiology, disaster and climate change, and the integration of non-government agencies (NGOs) in disaster response—a critical topic for those responding to humanitarian needs overseas. Includes new chapters on Pandemic Preparedness and Response, Disaster Medicine in a Changing Climate, Disaster

Response in Asia, Building Local Capacity and Disaster Resiliency, Civilian-Military Coordination in Disaster Response, Medical Simulation in Disaster Preparedness, Disaster Nursing, Crisis Meta-Leadership, Palliative Care in Disasters, Counter-Terrorism Medicine, SARS CoV (COVID-19 and SARS), and Disasters in Space Travel. An eBook version is included with purchase. The eBook allows you to access all of the text, figures and references, with the ability to search, customize your content, make notes and highlights, and have content read aloud.

Routledge Handbook of International Cybersecurity

- Eneken Tikk 2020-01-28

The Routledge Handbook of International Cybersecurity examines the development and use of information and communication technologies (ICTs) from the perspective of international peace and security. Acknowledging that the very notion of peace and security has become more complex, the volume seeks to

determine which questions of cybersecurity are indeed of relevance for international peace and security and which, while requiring international attention, are simply issues of contemporary governance or development. The Handbook offers a variety of thematic, regional and disciplinary perspectives on the question of international cybersecurity, and the chapters contextualize cybersecurity in the broader contestation over the world order, international law, conflict, human rights, governance and development. The volume is split into four thematic sections: Concepts and frameworks; Challenges to secure and peaceful cyberspace; National and regional perspectives on cybersecurity; Global approaches to cybersecurity. This book will be of much interest to students of cybersecurity, computer science, sociology, international law, defence studies and International Relations in general.

Routledge Handbook of

Japanese Foreign Policy -

Mary M. McCarthy 2018-02-19

From a nuclear North Korea and territorial disputes in the East China Sea, to global climate change and Asia-Pacific free trade agreements, Japan is at the center of some of the most challenging issues that the world faces today. Taking an interdisciplinary approach, comprising contributions from the fields of politics, sociology, history, and gender studies, this handbook creates a comprehensive and innovative overview of the field, investigating the widening variety of interests, sometimes competing, that constitute Japanese foreign policy.

Organized topically, it is divided into sections, including:

- Japan's evolving foreign policy landscape
 - Global environmental and sustainable development
 - International and national security
 - International political economy
 - International norms and civil society.
- Providing an evaluation of the key actors, institutions, and networks influencing Japanese foreign

policy, the Routledge Handbook of Japanese Foreign Policy is an essential resource for students and scholars of Japanese and Asian Politics, International Relations, and Foreign Policy.

European Union Military Operations - Niklas I. M. Nováky 2018-01-12

This book offers an in-depth study on the deployment of military operations in the framework of the European Union's Common Security and Defence Policy (ESDP/CSDP). While existing studies of the subject are either descriptive or focused on a single level of analysis, this book incorporates factors from three different levels of analysis to explain the deployment of ESDP military operations. First, the international level, where the emergence of events that threaten certain values held dear by EU member states, catalyses the process leading to an operation; second, the national level, where the member states formulate their initial national preferences towards a prospective

deployment based on national utility expectations; and third, the EU level, where the member states come to negotiate and seek compromises to accommodate their different national preferences towards a deployment. The strength of this multi-level collective action approach is demonstrated by four in-depth military case studies, which analyse the preference formation of France, Germany, and the UK towards the deployments of Operation Althea in Bosnia and Herzegovina, Operation Artemis and EUFOR RD Congo in the Democratic Republic of the Congo (DRC), and Operation Atalanta off the coast of Somalia, respectively. The author draws on a wealth of primary sources, including over 50 semi-structured interviews conducted with national and EU officials during 2011-15, and provides an up-to-date overview and critique of the existing theoretical literature on the deployment of ESDP/CSDP military operations. This book

will be of much interest to students of European security, EU politics, military and strategic studies, and International Relations in general.

Travellers, Merchants and Settlers in the Eastern Mediterranean, 11th-14th Centuries - David Jacoby
2023-05-31

This collection of studies (the eighth by David Jacoby) covers a period witnessing intensive geographic mobility across the Mediterranean, illustrated by a growing number of Westerners engaging in pilgrimage, crusade, trading and shipping, or else driven by sheer curiosity. This movement also generated western settlement in the eastern Mediterranean region. A complex encounter of Westerners with eastern Christians and the Muslim world occurred in crusader Acre, the focus of two papers; a major emporium, it was also the scene of fierce rivalry between the Italian maritime powers. The fall of the crusader states in 1291 put an end to western mobility in the

Levant and required a restructuring of trade in the region. The next five studies show how economic incentives promoted western settlement in the Byzantine provinces conquered by western forces during the Fourth Crusade and soon after. Venice fulfilled a major function in Latin Constantinople from 1204 to 1261. The city's progressive economic recovery in that period paved the way for its role as transit station furthering western trade and colonization in the Black Sea region. Venice had also a major impact on demographic and economic developments in Euboea, located along the maritime route connecting Italy to Constantinople. On the other hand, military factors drove an army of western mercenaries to establish in central Greece a Catalan state, which survived from 1311 to the 1380s.

Systems Engineering in Context - Stephen Adams
2019-06-21

This volume chronicles the 16th Annual Conference on System Engineering Research

(CSER) held on May 8-9, 2018 at the University of Virginia, Charlottesville, Virginia, USA. The CSER offers researchers in academia, industry, and government a common forum to present, discuss, and influence systems engineering research. It provides access to forward-looking research from across the globe, by renowned academicians as well as perspectives from senior industry and government representatives. Co-founded by the University of Southern California and Stevens Institute of Technology in 2003, CSER has become the preeminent event for researchers in systems engineering across the globe. Topics include though are not limited to the following:

- Systems in context: · Formative methods: requirements · Integration, deployment, assurance · Human Factors · Safety and Security Decisions/ Control & Design; Systems Modeling: · Optimization, Multiple Objectives, Synthesis · Risk and resiliency · Collaborative autonomy · Coordination and distributed

- decision-making Prediction: · Prescriptive modeling; state estimation · Stochastic approximation, stochastic optimization and control
- Integrative Data engineering: · Sensor Management · Design of Experiments

INCOSE Systems

Engineering Handbook -

INCOSE 2015-06-12

A detailed and thorough reference on the discipline and practice of systems engineering The objective of the International Council on Systems Engineering (INCOSE) Systems Engineering Handbook is to describe key process activities performed by systems engineers and other engineering professionals throughout the life cycle of a system. The book covers a wide range of fundamental system concepts that broaden the thinking of the systems engineering practitioner, such as system thinking, system science, life cycle management, specialty engineering, system of systems, and agile and iterative methods. This book also defines the discipline and

practice of systems engineering for students and practicing professionals alike, providing an authoritative reference that is acknowledged worldwide. The latest edition of the INCOSE Systems Engineering Handbook: Is consistent with ISO/IEC/IEEE 15288:2015 Systems and software engineering—System life cycle processes and the Guide to the Systems Engineering Body of Knowledge (SEBoK) Has been updated to include the latest concepts of the INCOSE working groups Is the body of knowledge for the INCOSE Certification Process This book is ideal for any engineering professional who has an interest in or needs to apply systems engineering practices. This includes the experienced systems engineer who needs a convenient reference, a product engineer or engineer in another discipline who needs to perform systems engineering, a new systems engineer, or anyone interested in learning more about systems engineering.

Handbook of BRICS and Emerging Economies - P. B. Anand 2021-01-16

This handbook presents a comprehensive and multi-faceted analysis of the BRICS countries and other emerging economies, exploring their economic, social, environmental, and governance dimensions and challenges.

Research Handbook on the EU's Common Foreign and Security Policy - Steven Blockmans 2018

In times of rapid change and unpredictability the European Union's role in the world is sorely tested. How successfully the EU meets challenges such as war, terrorism and climate change, and how effectively the Union taps into opportunities like mobility and technological progress depends to a great extent on the ability of the EU's institutions and member states to adopt and implement a comprehensive and integrated approach to external action. This Research Handbook examines the law, policy and practice of the EU's Common Foreign and Security Policy,

including the Common Security and Defence, and gauges its interactions with the other external policies of the Union

(including trade, development, energy), as well as the evolving political and economic challenges that face the European Union.