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Weaponneering-Morris R. Driels 2013 In this highly anticipated second edition, Morris Driels continues to assist those engaged in assessing the effects of conventional weapons. This Second Edition provides an extensive analysis of the techniques used to predict the effect of air-launched and surface-launched conventional weapons directed against ground targets.

Weaponneering: an Introduction-Morris R. Driels 2020 "In this highly anticipated third edition, Morris R. Driels clearly and comprehensively describes tools and strategies for assessing the effects of conventional weapons. The intent is to explain the underlying methodologies behind various weaponneering tools rather than how to use the tools themselves. This introductory volume covers the basic subjects that need to be understood to compute weapon effects based on the concept of an effectiveness index (EI). These subjects include weapon delivery accuracy, warhead lethality, and target vulnerability. This approach gives reasonable, rapid results and allows an easier understanding of current methods used to estimate weapon effects"--

Effects of Nuclear Earth-Penetrator and Other Weapons-National Research Council 2005-10-06 Underground facilities are used extensively by many nations to conceal and protect strategic military functions and weapons' stockpiles. Because of their depth and hardened status, however, many of these strategic hard and deeply buried targets could only be put at risk by conventional or nuclear earth penetrating weapons (EPW). Recently, an engineering feasibility study, the robust nuclear earth penetrator program, was started by DOE and DOD to determine if a more effective EPW could be designed using major components of existing nuclear weapons. This activity has created some controversy about, among other things, the level of collateral damage that would ensue if such a weapon were used. To help clarify this issue, the Congress, in P.L. 107-314, directed the Secretary of Defense to request from the NRC a study of the anticipated health and environmental effects of nuclear earth-penetrators and other weapons and the effect of both conventional and nuclear weapons against the storage of biological and chemical weapons. This report provides the results of those analyses. Based on detailed numerical calculations, the report presents a series of findings comparing the effectiveness and expected collateral damage of nuclear EPW and surface nuclear weapons under a variety of conditions. Army Fires Capabilities for 2025 and Beyond-John Gordon, IV 2020-01-15 To assist the Army in its reorientation toward conventional combat operations, the authors of this report identify capability gaps in the field artillery and actions that the Army should consider taking from today to roughly 2030.

Operations Research for Unmanned Systems-John Q. Dickmann, Jr. 2016-05-02 The first edited volume addressing analysis for unmanned vehicles, with focus on operations research rather than engineering • The editors have a unique combination of extensive operational experience and technical expertise • Chapters address a wide-ranging set of examples, domains and applications • Accessible to a general readership and also informative for experts

21st Century Prometheus-Maurizio Martellini

Advances in Protective Structures Research-Hong Hao 2012-08-17 The International Association of Protective Structures (IAPS) was launched on 1 October 2010 in Manchester, UK during the first International Conference of Protective Structures. The primary purpose of IAPS is to bring researchers and engineers working in the area of protective structures together, and to promote research and development work for better life and structure protection against shock and impact loads. More information can be found at <http://www.protectivestructures.org/contact.html>. Advances in Protective Structures Research is the first publication in a series of planned publications by IAPS. It contains 13 chapters prepared by active and prominent researchers around the world in the area of protective structures. It covers the dynamic material model and material properties, structural response analysis, structural reliability analysis, impact loads and ground shock. The contents of the book reflect well the current research achievements and practice in structural protection against blast and impact loads. They represent the advanced international research status in theoretical derivations, numerical simulations, and laboratory and field tests for structure protections.

Naval War College Review- 2011

Thinking about Deterrence - Enduring Questions in a Time of Rising Powers, Rogue Regimes, and Terrorism-Air University Press 2019-07-11 With many scholars and analysts questioning the relevance of deterrence as a valid strategic concept, this volume moves beyond Cold War nuclear deterrence to show the many ways in which deterrence is applicable to contemporary security. It examines the possibility of applying deterrence theory and practice to space, to cyberspace, and against non-state actors. It also examines the role of nuclear deterrence in the twenty-first century and reaches surprising conclusions.

Innovative Fields of Ballistics & Applied Physics-Prof. Govinda Chandra Rout 2012-01-01 Ballistics and applied physics plays a very important role in the system design and development of rockets, missiles and weapon systems. This book is an outcome of a seminar on these topics

Data and Decision Sciences in Action-Ruhul Sarker 2017-07-26 Offering a concise and multidisciplinary reference guide to the state of the art in Australian operations research, this book will be of great value to academics working in many disciplines associated with operations research, as well as industrial practitioners engaged in planning, scheduling and logistics. Over 60 papers, with topics ranging from academic research techniques and case studies to industrial and administrative best practices in operations research, address aspects such as: • optimization, combinatorial optimization, decision analysis, supply-chain management, queuing and routing, and project management; and • logistics, government, cyber security, health-care systems, mining and material processing, ergonomics and human factors, space applications, telecommunications and transportation, among many others. This book presents the Proceedings of the National Conference of the Australian Society for Operations Research, the premier professional organization for Australian academics and practitioners working in optimization and other disciplines related to operations research. The conference was held in Canberra in November 2016.

The Air War in Southeast Asia- 2003 En analyse af den amerikanske anvendelse af flystyrker under Vietnamkrigen.

Field Artillery Manual Cannon Gunnery-Department of the Army 2017-08-19 Training Circular (TC) 3-09.81, "Field Artillery Manual Cannon Gunnery," sets forth the doctrine pertaining to the employment of artillery fires. It explains all aspects of the manual cannon gunnery problem and presents a practical application of the science of ballistics. It includes step-by-step instructions for manually solving the gunnery problem which can be applied within the framework of decisive action or unified land operations. It is applicable to any Army personnel at the battalion or battery responsible to delivered field artillery fires. The principal audience for ATP 3-09.42 is all members of the Profession of Arms. This includes field artillery Soldiers and combined arms chain of command field and company grade officers, middle-grade and senior noncommissioned officers (NCO), and battalion and squadron command groups and staffs. This manual also provides guidance for division and corps leaders and staffs in training for and employment of the BCT in decisive action. This publication may also be used by other Army organizations to assist in their planning for support of battalions. This manual builds on the collective knowledge and experience gained through recent operations, numerous exercises, and the deliberate process of informed reasoning. It is rooted in time-tested principles and fundamentals, while accommodating new technologies and diverse threats to national security.

Airpower Advantage-Diane T. Putney 2015-02-02 American air power is a dominant force in today's world. Its ascendancy, evolving in the half century since the end of World War II, became evident during the first Gulf War. Although a great deal has been written about military operations in Desert Shield and Desert Storm, this deeply researched volume by Dr. Diane Putney probes the little-known story of how the Gulf War air campaign plan came to fruition. Based on archival documentation and interviews with USAF planners, this work takes the reader into the planning cells where the difficult work of building an air campaign plan was accomplished on an around-the-clock basis. The tension among air planners is palpable as Dr. Putney traces the incremental progress and friction along the way. The author places the complexities of the planning process within the context of coalition objectives. All the major players are here: President George H. W. Bush, General H. Norman Schwarzkopf, General Colin Powell, General Chuck Horner, and Secretary of Defense Richard Cheney. The

air planning process generated much debate and friction, but resulted in great success - a 43-day conflict with minimum casualties. Dr. Putney's rendering of this behind-the-scenes evolution of the planning process, in its complexity and even suspense, provides a fascinating window into how wars are planned and fought today and what might be the implications for the future.

From the Line in the Sand-Michael P. Vriesenga 1994-03 Captain Vriesenga presents a compilation of essays by 34 participants below the rank of major who contributed to the Gulf War. Their stories focus on such topics as deployment, organizational patterns of units, delegation of authority and responsibility, emotions and psychology of combat, the impact of combat losses, airfield construction, medical care, and aircraft preparations.

Improving the Decision Making Abilities of Small Unit Leaders-National Research Council 2012-07-06 For the past decade, the U.S. Marine Corps and its sister services have been engaged in what has been termed "hybrid warfare," which ranges from active combat to civilian support. Hybrid warfare typically occurs in environments where all modes of war are employed, such as conventional weapons, irregular tactics, terrorism, disruptive technologies, and criminality to destabilize an existing order. In August 2010, the National Research Council established the Committee on Improving the Decision Making Abilities of Small Unit Leaders to produce *Improving the Decision Making Abilities of Small Unit Leaders*. This report examines the operational environment, existing abilities, and gap to include data, technology, skill sets, training, and measures of effectiveness for small unit leaders in conducting enhanced company operations (ECOs) in hybrid engagement, complex environments. *Improving the Decision Making Abilities of Small Unit Leaders* also determines how to understand the decision making calculus and indicators of adversaries. *Improving the Decision Making Abilities of Small Unit Leaders* recommends operational and technical approaches for improving the decision making abilities of small unit leaders, including any acquisition and experimentation efforts that can be undertaken by the Marine Corps and/or by other stakeholders aimed specifically at improving the decision making of small unit leaders. This report recommends ways to ease the burden on small unit leaders and to better prepare the small unit leader for success. *Improving the Decision Making Abilities of Small Unit Leaders* also identifies a responsible organization to ensure that training and education programs are properly developed, staffed, operated, evaluated, and expanded.

Combat Pair-Benjamin S. Lambeth 2007-12-18 This report documents the exceptional cross-service harmony that the U.S. Air Force and U.S. Navy have steadily developed in their conduct of integrated strike operations since the first Persian Gulf War in 1991. That close harmony contrasts sharply with the situation that prevailed throughout most of the Cold War, when the two services maintained separate and unique operating mindsets and lacked any significant interoperability features.

Setup-Earl H. Tilford 2013-07

Targeting: The Challenges of Modern Warfare-Paul A.L. Ducheine 2015-11-03 This book offers a multidisciplinary treatment of targeting. It is intended for use by the military, government legal advisers and academics. The book is suitable for use in both military training and educational programs and in Bachelor and Master degree level courses on such topics as War Studies and Strategic Studies. The book first explores the context of targeting, its evolution and the current targeting process and characteristics. An overview of the legal and ethical constraints on targeting as an operational process follows. It concludes by surveying contemporary issues in targeting such as the potential advent of autonomous weapon systems, 'non-kinetic' targeting, targeting in multinational military operations and leadership decapitation in counter-terrorism operations. The deep practical experience and academic background of the contributors ensures comprehensive treatment of current targeting and use of force issues. Paul Ducheine is Professor for Cyber Operations and Cyber Security, Netherlands Defence Academy, Breda, The Netherlands; and Professor of Law of Military Cyber Operations and Cyber Security at the University of Amsterdam, The Netherlands. Michael Schmitt is Charles H. Stockton Professor & Director, Stockton Center for the Study of International Law, U.S. Naval War College, Newport, Rhode Island, and Professor of Public International Law, University of Exeter, UK. Frans Osinga is Chair of the War Studies Department, Netherlands Defence Academy, Breda, The Netherlands, and Professor of Military Operational Art and Sciences.

Creating a DoD Strategic Acquisition Platform-Ronald Kerber 2009-11 The U.S. must be prepared to respond to a broad set of national security missions, both at home and abroad. Yet many deficiencies exist in defense capabilities need to support these missions -- systems are aging and technologies are becoming obsolete. Fixing the DoD acquisition process is a critical national security issue -- requiring the attention of the Sec. of Defense. DoD needs a strategic acquisition platform to guide the process of equipping its forces with the right materiel to support mission needs in an expeditious, cost-effective manner. The incoming leadership must address this concern among its top priorities, as the nation's military prowess depends on it. This report offers recommendations for rebuilding the defense acquisition process.

The Aeronautical Journal- 2005

Precision and Purpose-Karl P. Mueller 2015-07-08 Between March and October 2011, a coalition of North Atlantic Treaty Organization (NATO) member states and several partner nations waged a war against Muammar Qaddafi's Libyan regime that stemmed and then reversed the tide of Libya's civil war, preventing Qaddafi from crushing the nascent rebel movement seeking to overthrow his dictatorship and going on to enable opposition forces to prevail. The central element of this intervention was a relatively small multinational force's air campaign operating from NATO bases in several countries, as well as from a handful of aircraft carriers and amphibious ships in the Mediterranean Sea. The study details each country's contribution to that air campaign, examining such issues as the limits of airpower and coordination among nations. It also explores whether the Libyan experience offers a potential model for the future.

Tactical Missile Design-Eugene L. Fleeman 2006 This textbook will provide a basis for including tactical missile design as part of the aerospace engineering curriculum, providing new graduates with the knowledge they will need in their careers.

Psyop-U. S. Army 2009-03 Written as a Top Secret US Army procedural manual and released under the Freedom of Information act this manual describes the step-by-step process recommended to control and contain the minds of the enemy and the general public alike. Within these 180+ pages you will read in complete detailed the Mission of PSYOP as well as PSYOP Roles, Policies and Strategies and Core Tasks. Also included are the logistics and communication procedures used to insure the "right" people get the "right" information.

Weapons and the Law of Armed Conflict-William H. Boothby 2016-03-10 Bringing together the law of armed conflict governing the use of weapons into a single volume, the fully updated Second Edition of *Weapons and the Law of Armed Conflict* interprets these rules and discusses the factors influencing future developments in weapons law. After relating the historical evolution of weapons law, the book discusses the important customary principles that are the foundation of the subject, and provides a condensed account of the law that exists on the use of weapons. The treaties and customary rules applying to particular categories of weapon are thereafter listed and explained article by article and rule by rule in a series of chapters. Having stated the law as it is, the book then explores the way in which this dynamic field of international law develops in the light of various influences. The legal review of weapons is discussed, both from the perspective of how such reviews should be undertaken and how such a system should be established. Having stated the law as it is, the book then investigates the way in which this dynamic field of international law develops in the light of various influences. In the final chapter, the prospects for future rule change are considered. This Second Edition includes a discussion of new treaty law on expanding bullets, the arms trade, and norms in relation to biological and chemical weapons. It also analyses the International Manuals on air and missile warfare law and on cyber warfare law, the challenges posed by 'lethal autonomous weapon systems', and developments in the field of information and telecommunications otherwise known as cyber activities.

Joint Urban Operations-Joint Chiefs Of Staff 2013-11 This publication has been prepared under the direction of the Chairman of the Joint Chiefs of Staff (CJCS). It sets forth joint doctrine to govern the activities and performance of the Armed Forces of the United States in joint operations and provides the doctrinal basis for interagency coordination and for US military involvement in multinational operations. It provides military guidance for the exercise of authority by combatant commanders and other joint force commanders (JFCs) and prescribes joint doctrine for operations, education, and training. It provides military guidance for use by the Armed Forces in preparing their appropriate plans. It is not the intent of this publication to restrict the authority of the JFC from organizing the force and executing the mission in a manner the JFC deems most appropriate to ensure unity of effort in the accomplishment of the overall objective.

The Operations Process-Army Training Doctrine And Command 2011-11 FM 5-0 (C1), *The Operations Process*, constitutes the Army's view on planning, preparing, executing, and assessing operations. It describes how commanders-supported by their staffs, subordinate commanders, and other military and civilian partners-exercise mission command during the conduct of full spectrum operations. It describes how design assists commanders with understanding complex problems and developing an operational approach to solve or manage those problems throughout the conduct of operations. This manual applies to all Army forces. The principal audience for this manual is Army commanders and unit staffs (officers, noncommissioned officers, and Soldiers). Commanders and staffs of Army headquarters serving as a joint task force or a multinational headquarters should also refer to applicable joint or multinational doctrine for the exercise of command and control. Trainers and educators throughout the Army also use this manual.

Modeling and Simulation for Military Operations II-William K. Schum 2007 Proceedings of SPIE present the original research papers presented at SPIE conferences and other high-quality conferences in the broad-ranging fields of optics and photonics. These books provide prompt access to the latest innovations in research and technology in their respective fields. Proceedings of SPIE are among the most cited references in patent literature.

Explosives Engineering-Paul W. Cooper 2018-07-19 This graduate text, and Cooper's companion introductory text ('Introduction to the Technology of

Explosives'), serve the same markets as the successful explosives reference by Meyer, now in its 4th edition. VCH also published the International Journal of Propellants, Explosives, and Pyrotechnics. The resulting package would give VCH the major presence in the field. This text presents the basic technologies used in the engineering of explosives and explosive systems, i.e., chemistry, burning, detonation, shock waves, initiation theories, scaling. The book is written for upper-division undergraduate or graduate-level scientists and engineers, and assumes a good grasp of basic physics, chemistry, mechanics and mathematics through calculus. It is based on lecture notes used for graduate courses at the Dept. of Energy Laboratories, and could serve as a core text for a course at schools of mining or military engineering. The intent of the book is to provide the engineer or scientist in the field with an understanding of the phenomena involved and the engineering tools needed to solve/ design/ analyze a broad range of real problems.

High Power Microwaves-James Benford 2007-02-05 The first edition of High Power Microwaves was considered to be the defining book for this field. Not merely updated but completely revised and rewritten, the second edition continues this tradition. Written from a systems perspective, the book provides a unified, coherent presentation of the fundamentals in this rapidly changing field. The p

Aerospace America- 2005

Guns, Mortars, and Rockets-M. P. Manson 1997-01-01 Originally published in 1982, this re-written edition begins with a brief review of the historical development of artillery, emphasizing the interdependence between doctrine and technology which is still a fundamental factor in weapons design. The indirect fire system is then examined in order to demonstrate the need for a systems approach to current and future developments.

Deliberate Force - A Case Study in Effective Air Campaigning-Robert C. Owen 2012-08 Every airman or person interested in the art and science of air and space warfare should read this book. True to the direction of Gen James Jamerson, former deputy commander in chief of US European Command, and the author, the Air University Balkans Air Campaign Study (BACS) has emerged as a balanced and wide-ranging discussion of the Deliberate Force air campaign, which occurred during the fall of 1995. Exploiting the sources and resources available to them, the BACS team members have laid out a mile-wide and foot-deep exploration of the context, theoretical foundations, planning, execution, leadership, and effects of this milestone event. In so doing, they have contributed significantly to our knowledge about the political, military, technical, and human elements that shape air campaigns and influence their outcomes. Moreover, the BACS offers insights into persistent questions of military planners, such as the relationship of diplomacy and war; the synergy of land power, space power, and airpower; and the role of chance and "fog" in the conduct and outcome of air and space warfare. Finally, because the BACS team from the start wrote this report for immediate declassification, virtually the entire report and all of its substantive elements are available here as an open source, only four years after the event. Given its scope, this book should contain material of interest to all aerospace-warfare practitioners and/or thinkers, regardless of their area of expertise.

Artillery Strong-Boyd L. Dastrup 2018 Artillery Strong tells the story of the US Army's Field Artillery modernization efforts from the Gulf War of 1991 through the first two decades of the 21st Century. This study originated as the US Army Field Artillery School published Operation Desert Storm and Beyond: Modernizing the Field Artillery in 2005. The 2005 edition covered field artillery developments during the 1990s.--Provided by publisher.

The British National Bibliography-Arthur James Wells 2005

Book Review Index- 2005 Every 3rd issue is a quarterly cumulation.

Doomed to Cooperate-Siegfried S. Hecker 2016-06-28

Marine Rifle Squad (Marine Corps Warfighting Publication 3-11.2)-United States Marine Corps 2005-08-01 Fleet Marine Force Manual (FMFM) 6-5, Marine Rifle Squad, provides basic guidance to enable the rifle platoon squad leader to fight and lead his squad in combat. This manual describes the organization, weapons, capabilities, and limitations of the Marine rifle squad. It addresses the squad's role within the platoon and that of the fire teams within the rifle squad. Emphasis is placed on offensive and defensive tactics and techniques, as well as the different types of patrols the squad will conduct.

Weapons File-Antarctic Press 2006-03-22 The best collection of gun reference available, this book is ideal for illustrators and 3-D digital artists. Hundreds of reference photos of the most popular and visually interesting firearms photographed from 360 degrees and three different points of view, worms eye, eye level, and birds-eye view. This guide will enhance any artists work, providing an easy to use guide for creating realistic depictions of widely used firearms.

Airbase Operability-S. J. Sidoti 2001

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