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Soldiers in Cities: Military Operations on Urban Terrain
Complex Terrain
Professional Journal of the United States Army
Technology Development for Army Unmanned Ground Vehicles
Selected Training Practices for Military Operations in Urban Terrain (MOUT)
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McWp 3-35.3 - Military Operations on Urbanized Terrain (Mout)
Reimagining the Character of Urban Operations for the U. S. Army
Combined Arms Operations in Urban Terrain: The Official U.S. Army Tactics, Techniques, and Procedures Manual
Attp 3-06.11 (FM 3-06.11), June 2011
Storming the City
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Soldiers in Cities: Military Operations on Urban Terrain

"This book explores military operations, including indirect support to other interagency actors and functions in dense urban terrain and megacities. Dense urban terrain describes urban areas with high population densities that, in the developing world, often outstrip the capacity of local governance systems to exert formal control. The term megacity describes a city with a population of 10 million or more. These environments define patterns of human settlement. In 1950, only 30 percent of the world's population lived in cities compared to more than 55 percent in 2018. Much of this growth is concentrated in large, urban centers that connect a global flow of goods and ideas. By 2030, there will be more than 40 of these megacities"--

Complex Terrain

First published by the Combat Studies Institute Press. The resulting anthology begins with a general overview of urban operations from ancient times to the midpoint of the twentieth century. It then details ten specific case studies of U.S., German, and Japanese operations in cities during World War II and ends with more recent Russian attempts to subdue Chechen fighters in Grozny and the Serbian siege of Sarajevo. Operations range across the spectrum from combat to humanitarian and disaster relief. Each chapter contains a narrative account of a designated operation, identifying and analyzing the lessons that remain relevant today.

Professional Journal of the United States Army

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This compendium is the result of a conference on "Military Operations in an Urban Environment" cosponsored by the Patterson School of Diplomacy and International Commerce in conjunction with the Kentucky Commission on Military Affairs, the U.S. Army War College, and the Association of the United States Army. At the time of the conference, the concept of homeland defense was emerging as an increasingly important mission for the U.S. military. Now this mission has catapulted to prominence with the attacks of September 11 and the appointment of a Director of Homeland Defense-a Cabinet-level position. The authors of the chapters examine the ongoing doctrinal thinking, draw historical comparisons, and discuss the thoughts of those attending the conference-experts from the military, government civilian agencies, academia, think tanks, and the defense industry-regarding unconventional warfare. Collectively, they provide a comprehensive report on critical factors that the U.S. military soon may face.

Technology Development for Army Unmanned Ground Vehicles

Army Tactics, Techniques, and Procedures (ATTP) 3-06.11 establishes doctrine for combined arms operations in urban terrain for the brigade combat team (BCT) and battalion/squadron commanders and staffs, company/troop commanders, small-unit leaders, and individual Soldiers. The continued trend worldwide of urban growth and the shift of populations from rural to urban areas continues to affect Army operations. The urban environment, consisting of complex terrain, dense populations, and integrated infrastructures, is the predominant operational environment in which Army forces currently operate. Each urban environment is unique and differs because of the combinations presented by the enemy, the urban area itself, the major operation of which it may be part (or the focus), and always changing societal and geopolitical

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considerations. Enemy forces will take advantage of this complex environment by intermingling with the populace. ATTP 3-06.11 describes the fundamental principles, tactics, techniques, and procedures (TTP) of urban operations (UO) across full spectrum operations, using the UO operational construct (understand, shape, engage, consolidate, and transition) to outline the discussions. ATTP 3-06.11 is based on current BCT structure and lessons learned from ongoing UO.

Selected Training Practices for Military Operations in Urban Terrain (MOUT)

This research was undertaken to gain a better understanding of the relationship between deception and the urban environment, first to explore the power of deception when employed against U.S. forces in urban operations, and second to evaluate the potential value of deception when used by U.S. forces in urban operations.

Sharp Corners

Provides a historical analysis of how militaries have deployed light and mechanized infantry with armored forces during close urban combat, to identify the comparative advantages and costs of this warfighting approach and lessons learned.

Back to Basics

Military Review

Block by Block

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Contents: Introduction; Chapter 1. Hard Lessons Learned: Training, Training and Training as Well as Innovative Thinking ; The IDF Response to the 2006 Hezbollah-Israeli War; Hezbollah; The Gaza Conflict; Conclusion; Chapter 2. Hamas and Hezbollah: A Comparison of Tactics: Introduction; Application of the PMESII+PT Variables; Hamas and Hezbollah; Political; Military; Economic; Social; Infrastructure; Information; Physical Environment; Time; The 2006 Second Lebanon War; Hezbollah TTPs; 2008-2009 Hamas/Israeli Conflict; Hamas TTPs; Conclusion. Charts and tables.

Street Smart

An examination of the difficulties faced by the Russian military in planning and carrying out urban operations in Chechnya. Russian and rebel military forces fought to control the Chechen city of Grozny in the winters of 1994-1995 and 1999-2000, as well as clashing in smaller towns and villages. The author examines both Russian and rebel tactics and operations in those battles, focusing on how and why the combatants' approaches changed over time. The study concludes that while the Russian military was able to significantly improve its ability to carry out a number of key tasks in the five-year interval between the wars, other important missions--particularly in the urban realm--were ignored, largely in the belief that the urban mission could be avoided. This conscious decision not to prepare for a most stressful battlefield met with devastating results, a lesson the United States would be well served to study.

FM 21-26 Map Reading and Land Navigation.

O'Sullivan offers a unique geographical look at military strategy and tactics, focusing on recent warfare and weighing the balance of

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advantage for combatants in different geographic settings. He surveys the global variety of physical habitats from a military viewpoint, provides a geography of war since 1945, and analyzes a selection of ancient and modern battles in developing a set of classical tactical ploys. Also explored are a broad range of modern weapons and tactics, guerrilla operations and urban warfare, and the details of the British Army/IRA conflict.

Infantryman ' s Guide To Combat In Built-Up Areas

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.

McWp 3-35.3 - Military Operations on Urbanized Terrain (Mout)

Reimagining the Character of Urban Operations for the U. S. Army

The history of the American Ranger is a long and colorful saga of

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courage, daring, and outstanding leadership. It is a story of men whose skills in the art of fighting have seldom been surpassed. The United States Army Rangers are an elite military formation that has existed, in some form or another, since the American Revolution. A group of highly-trained and well-organized soldiers, US Army Rangers must be prepared to handle any number of dangerous, life-threatening situations at a moment's notice-and they must do so calmly and decisively. This is their handbook. Packed with down-to-earth, practical information, The Ranger Handbook contains chapters on Ranger leadership, battle drills, survival, and first aid, as well as sections on military mountaineering, aviation, waterborne missions, demolition, reconnaissance and communications. If you want to be prepared for anything, this is the book for you. Readers interested in related titles from The U.S. Army will also want to see: Army Guerrilla Warfare Handbook (ISBN: 9781626542730) Army Guide to Boobytraps (ISBN: 9781626544703) Army Improvised Munitions Handbook (ISBN: 9781626542679) Army Leadership Field Manual FM 22-100 (ISBN: 9781626544291) Army M-1 Garand Technical Manual (ISBN: 9781626543300) Army Physical Readiness Training with Change FM 7-22 (ISBN: 9781626544017) Army Special Forces Guide to Unconventional Warfare (ISBN: 9781626542709) Army Survival Manual FM 21-76 (ISBN: 9781626544413) Army/Marine Corps Counterinsurgency Field Manual (ISBN: 9781626544246) Map Reading and Land Navigation FM 3-25.26 (ISBN: 9781626542983) Rigging Techniques, Procedures, and Applications FM 5-125 (ISBN: 9781626544338) Special Forces Sniper Training and Employment FM 3-05.222 (ISBN: 9781626544482) The Infantry Rifle Platoon and Squad FM 3-21.8 / 7-8 (ISBN: 9781626544277) Understanding Rigging (ISBN: 9781626544673)

Combined Arms Operations in Urban Terrain: The Official U.S. Army Tactics, Techniques, and Procedures

Storming the City

The purpose of this field manual is to provide a standardized source document for Armywide reference on map reading and land navigation. It applies to every soldier in the Army regardless of service branch, MOS, or rank. This manual contains both doctrine and training guidance on these subjects. Part One addresses map reading and Part Two, land navigation. The appendixes include a list of exportable training materials, a matrix of land navigation tasks, an introduction to orienteering, and a discussion of several devices that can assist the soldier in land navigation."

From Cast Lead to Protective Edge

The urgent requirement for US Army preparedness in conducting urban operations (UO) is very real. As global urbanization continues to increase, the contemporary threat environment makes operations in cities impossible to avoid. The past decade has demonstrated through the American experiences in Mogadishu and Russian experiences in Grozny, less capable forces will attempt to use urban terrain asymmetrically to even the balance of power against technologically superior military forces. While we have always had a serious requirement to conduct urban operations, the very nature of the cold war, which was successful by its deterrence, prevented us from ever having to face the reality of fighting such urban engagements. In the post-cold war era, the U.S. Army is forced to face the realities of fighting in the urban environment. It is not enough to speak of preparing for " future urban operations " ; the future is here today and the Army must be prepared to engage in urban operations even as it moves towards the objective force. Being

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prepared means having solid doctrine, realistic training programs and facilities, and appropriate equipment to ensure success on the urban battlefield when the time comes to fight there.

US Army Chemical School and US Army Military Police School Relocation to Fort Leonard Wood (FLW) from Fort McClellan

“ My Clan Against the World ” : U.S. and Coalition Forces in Somalia 1992-1994

Few lessons are as prevalent in military history as is the adage that tanks don't perform well in cities. The notion of deliberately committing tanks to urban combat is anathema to most. In "Breaking the Mold: Tanks in the Cities," Ken Gott disproves that notion with a timely series of five case studies from World War II to the present war in Iraq. This is not a parochial or triumphant study. These cases demonstrate that tanks must do more than merely "arrive" on the battlefield to be successful in urban combat. From Aachen in 1944 to Fallujah in 2004, the absolute need for specialized training and the use of combined arms at the lowest tactical levels are two of the most salient lessons that emerge from this study. When properly employed, well-trained and well-supported units led by tanks are decisive in urban combat. The reverse also is true. Chechen rebels taught the Russian army and the world a brutal lesson in Grozny about what happens when armored units are poorly led, poorly trained, and cavalierly employed in a city. The case studies in this monograph are high-intensity battles in conflicts ranging from limited interventions to major combat operations. It would be wrong to use them to argue for the use of tanks in every urban situation. As the intensity of the operation decreases, the 2nd and 3rd order effects of using tanks in

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cities can begin to outweigh their utility. The damage to infrastructure caused by their sheer weight and size is just one example of what can make tanks unsuitable for every mission. Even during peace operations, however, the ability to employ tanks and other heavy armored vehicles can be crucial. "Breaking the Mold" provides an up-to-date analysis of the utility of tanks and heavy armored forces in urban combat. The U.S. Army will increasingly conduct combat operations in urban terrain, and it will be necessary to understand what it takes to employ tanks to achieve success in that battlefield environment.

Ranger Handbook (Large Format Edition)

The global spread of science and technology expertise and the growing commercial access to advanced technologies with possible military application are creating potentially serious threats to the technological superiority underpinning U.S. military strength. Key to dealing with this situation is the ability of the U.S. intelligence community to be able to provide adequate and effective warning of evolving, critical technologies. To assist in performing this task, the Technology Warning Division of the Defense Intelligence Agency (DIA) asked the National Research Council (NRC) to undertake a study examining technology warning issues. This report provides the first part of that study. It presents an assessment of critical, evolving technologies; postulates ways potential adversaries could disrupt these technologies; and provides indicators for the intelligence community to determine if such methods are under development. The intention of this report is to establish the foundation for a long-term relationship with the technology warning community to support the examination of technology warning issues.

Breaking the Mold

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Intelligence preparation of the battlefield (IPB), the Army's traditional methodology for finding and analyzing relevant information for its operations, is not effective for tackling the operational and intelligence challenges of urban operations. The authors suggest new ways to categorize the complex terrain, infrastructure, and populations of urban environments and incorporate this information into Army planning and decisionmaking processes.

Cognitive Requirements for Small Unit Leaders in Military Operations in Urban Terrain

In the past half-century, the classic military conflict of armies maneuvering in the field has been replaced by conflicts that center on, rather than avoid, heavily populated areas. Modern military conflict more frequently is not just a fight to control villages or cities, but a variation on the timeless wish to control populations and the hearts of nations. The hardware and mass orientation of the levee en masse and industrial-age armies is being replaced by sophisticated terrorists, information warfare, and the politics of mass persuasion. These are reshaping the face of warfare. This book focuses on identifying the lessons of previous military operations--from combat to humanitarian operations--which will be useful to the U.S. military in the future in conducting operations in urban areas abroad and at home.

Military Contingencies in Megacities and Sub-Megacities

"The Army and Marine Corps both consider Military Operations in Urban Terrain (MOUT) to be a central part of future training and

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together have a joint MOUT Advanced Concept Technology Demonstration (ACTD) underway. Training facilities for military and law enforcement agencies include firing ranges, mock towns or villages, and shoot houses. Makeshift facilities for dry fire drills include engineer tape staked out on the ground and rooms in any building available. Training in Close Quarter Combat (CQC) is offered in Army and Marine Corps training courses. Training time was mostly allocated to live fire and live simulation. Team dry fire drills were often extensively practiced before team live fire, but considered as a part of the safety training required as a part of live firing. Before team live fire training, Army units usually conduct individual marksmanship training. In many cases, standards were set for individual qualification before soldiers could participate in team live fire. Live simulation was both with the multiple integrated laser engagement system (MILES) and Simunition. Law enforcement agencies (including Military Police) and Marines were more likely to use Simunition. Those using Simunition who also had experience with MILES preferred Simunition for live simulation training."--DITC.

Soldiers in Cities

Introduction -- Tunnels in conflict : from ancient uses to contemporary threats -- Underground warfare : from a tool of war to a global security threat -- Sovereignty over the underground -- Contending with tunnels : law, strategy, and methods -- Underground warfare and the jus ad bellum -- Underground warfare and the jus in bello : general considerations -- Underground warfare near, by, and against civilians -- Conclusion

Terrain and Tactics

Operations in urban areas pose specific challenges for U.S. Army

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combat service support (CSS)--which is responsible for arming, manning, sustaining, and otherwise supporting these operations.

This report gives an overview of these tasks and ways in which the CSS community can prepare itself to meet them. The authors conducted literature reviews and interviews, and they drew on extensive prior research. Findings fall into two broad categories: (1) functional-area specific, applying exclusively to arming, manning, sustaining, moving, fixing, force protection, and selected other areas; and (2) those with broader application. Under the latter, the limited availability of many CSS assets will encourage their central management. Commanders will therefore have to consider weighting front-line assets with such low-density assets or keeping them centralized for dispatch as needed. CSS resources will require the same command, control, and communications assets as do other units. Additionally, CSS drivers and others throughout the area of operations are a potentially vital and traditionally underused source of intelligence. Attrition and consumption rates tend to be much higher than is elsewhere experienced. Demands on CSS units will be exceptional even during operations in which combat plays no role.

In Order To Win, Learn How To Fight: The US Army In Urban Operations

"Military Operations in Urban Terrain (MOUT) create unique cognitive demands for small unit leaders, particularly platoon leaders. Years of experience are typically needed to master these demands. However, most platoon leaders tend to have limited experience in Army operations generally, and MOUT operations specifically. A cognitive task analysis, based on in depth interviews with subject matter experts (n=7), was conducted to expose the cognitive aspects of expertise existing within one important MOUT task, building clearing operations. From the perspective of platoon

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leaders, the cognitive demands of this task were defined within the context of decision requirement tables. Decision requirements detail critical decisions and judgments, the reasons why they can be difficult to make, cues and factors that influence decision making, and rules and strategies employed in the decision making process. The findings of the cognitive task analysis guided the development of training recommendations, particularly the need for a scenario based MOUT training program aimed at improving platoon leader expertise through practice in decision making."--Stinet.

Opportunities in Neuroscience for Future Army Applications

This manual provides guidance for the organization, planning, and conduct of the full range of military operations on urbanized terrain. This publication was prepared primarily for commanders, staffs, and subordinate leaders down to the squad and fire team level. It is written from a Marine air-ground task force perspective, with emphasis on the ground combat element as the most likely supported element in that environment. It provides the level of detailed information that supports the complexities of planning, preparing for, and executing small-unit combat operations on urbanized terrain. It also provides historical and environmental information that supports planning and training for combat in built-up areas

Joint Urban Operations

Large-Scale Combat Operations

Analyzes four megatrends—population growth, urbanization, coastal life and connectedness—and concludes that future conflict is

increasingly likely to occur in sprawling coastal cities; in underdeveloped regions of the Middle East, Africa, Latin America and Asia; and in highly networked, connected settings, in a book that also looks at gangs, cartels and warlords.

Urban Operations

Doctrine provides a military organization with a common philosophy, a language, a purpose, and unity of effort. Rather than establishing a set of hard and fast rules, the objective of doctrine is to foster initiative and creative thinking. To this end, FM 3-06 discusses major Army operations in an urban environment. This environment, consisting of complex terrain, a concentrated population, and an infrastructure of systems, is an operational environment in which Army forces will operate. In the future, it may be the predominant operational environment. Each urban operation is unique and will differ because of the multitude of combinations presented by the threat, the urban area itself, the major operation of which it may be part (or the focus), and the fluidity of societal and geopolitical considerations. Therefore, there will always exist an innate tension between Army doctrine, the actual context of the urban operation, and future realities. Commanders must strike the proper balance between maintaining the capability to respond to current threats and preparing for future challenges. This manual provides the analytical tools for evaluating an urban operation to determine if the operation is necessary for overall mission success. It also provides the means to understanding and determining the impacts of the urban environment on military operations and provides information on managing, taking advantage of, and mitigating the effects of those impacts as appropriate. As such, this manual demonstrates how to apply the doctrinal principles in FM 3-0 to this unique environment.

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Toward Combined Arms Warfare

This new compendium is the first volume in the Art of Tactics series, sponsored by the Department of Army Tactics, US Army Command and General Staff College. This collection examines various aspects of division-level operations, to include Fires, Wet Gap Crossings, and Consolidating Gains, as part of the Army's effort to refocus the force on large-scale combat against near peer and peer adversaries. In 1915, the Department of Military Art of the Army Service Schools at Fort Leavenworth, Kan., revised and published Studies in Minor Tactics. In the preface of this volume, Lt. Col. W. A. Holbrook, cavalry officer and senior instructor for the department, wrote: "It is believed this book will prove of great value to those officers seeking information as to the practical handling of small units in field operations, and of marked assistance to those preparing themselves for admission to The Army Service Schools." More than 100 years later, the Department of Army Tactics (DTAC) aspires to deliver a volume of similar value as our Army orients on largescale combat operations. In this inaugural contemporary compendium, several DTAC faculty members—representing both active-duty and retired Army officers—have put their ideas on paper to reinforce our emerging Operations doctrine and continue the professional discourse required to stimulate and improve our profession of arms. The chapters in this volume are intentionally focused on large-scale combat operations at the division level. While there was no specific guidance to address any particular warfighting function, most of the work is oriented on mission command or movement and maneuver. There is a nod to fires and intelligence, as well as the broader areas of leadership and information within the elements of combat power. All chapters adhere to the aim of contributing to our body of knowledge and assisting the force. A project of this type does not just happen, and I am grateful to the authors who chose to put themselves out there

and to the many peers and colleagues who critically reviewed their work. I also wish to thank Dennis S. Burket, the current Gen. George S. Patton Jr. Chair of Tactical Studies, for his exceptional dedication to the quality and production of what we intend to be an ongoing publication from DTAC.

The Art of Darkness

This report describes how the Israel Defense Force fought an adaptive hybrid adversary in a dense urban setting under intense public scrutiny during its wars in Gaza and draws lessons from the Israeli experience for the U.S. Army and the joint force.

Russia's Chechen Wars 1994-2000

Advances and major investments in the field of neuroscience can enhance traditional behavioral science approaches to training, learning, and other applications of value to the Army. Neural-behavioral indicators offer new ways to evaluate how well an individual trainee has assimilated mission critical knowledge and skills, and can also be used to provide feedback on the readiness of soldiers for combat. Current methods for matching individual capabilities with the requirements for performing high-value Army assignments do not include neuropsychological, psychophysiological, neurochemical or neurogenetic components; simple neuropsychological testing could greatly improve training success rates for these assignments. Opportunities in Neuroscience for Future Army Applications makes 17 recommendations that focus on utilizing current scientific research and development initiatives to improve performance and efficiency, collaborating with pharmaceutical companies to employ neuropharmaceuticals for general sustainment or enhancement of soldier performance, and improving cognitive and behavioral performance using

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interdisciplinary approaches and technological investments. An essential guide for the Army, this book will also be of interest to other branches of military, national security and intelligence agencies, academic and commercial researchers, pharmaceutical companies, and others interested in applying the rapid advances in neuroscience to the performance of individual and group tasks.

Urban Combat Service Support Operations

Urbanization is one of the most important mega-trends of the 21st century. Consequently, the possibility of U.S. military involvement in a megacity or sub-megacity is an eventuality that cannot be ignored. After elucidating the nature of urbanization and developing a typology in terms of smart, fragile, and feral cities, we give consideration to the kinds of contingencies that the U.S. military, especially the Army, needs to think about and prepare for. Understanding the city as a complex system or organism is critical and provides the basis for changes in intelligence, recruitment, training, equipment, operations, and tactics. One of the key takeaways is the need to understand the urban environment and the need to work with (instead of against) the flows and rhythms of a city. Without such an approach, the results of military involvement in such a formidable environment would likely be disastrous; with it, the prospects for success would at least be enhanced.

Boots on the ground: Troop Density in Contingency Operations

This paper clearly shows the immediate relevancy of historical study to current events. One of the most common criticisms of the U.S. plan to invade Iraq in 2003 is that too few troops were used. The argument often fails to satisfy anyone for there is no standard against which to judge. A figure of 20 troops per 1000 of the local

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population is often mentioned as the standard, but as McGrath shows, that figure was arrived at with some questionable assumptions. By analyzing seven military operations from the last 100 years, he arrives at an average number of military forces per 1000 of the population that have been employed in what would generally be considered successful military campaigns. He also points out a variety of important factors affecting those numbers—from geography to local forces employed to supplement soldiers on the battlefield, to the use of contractors—among others.

Avoiding Surprise in an Era of Global Technology Advances

Soldiers in Cities

Unmanned ground vehicles (UGV) are expected to play a key role in the Army's Objective Force structure. These UGVs would be used for weapons platforms, logistics carriers, and reconnaissance, surveillance, and target acquisition among other things. To examine aspects of the Army's UGV program, assess technology readiness, and identify key issues in implementing UGV systems, among other questions, the Deputy Assistant Secretary of the Army for Research and Technology asked the National Research Council (NRC) to conduct a study of UGV technologies. This report discusses UGV operational requirements, current development efforts, and technology integration and roadmaps to the future. Key recommendations are presented addressing technical content, time lines, and milestones for the UGV efforts.

Soldiers in Cities

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In an increasingly urbanized world, urban terrain has become a greater factor in military operations. Simultaneously, advances in military technology have given military forces sharply increased capabilities. The conflict comes from how urban terrain can negate or degrade many of those increased capabilities. What happens when advanced weapons are used in a close-range urban fight with an abundance of cover? *Storming the City* explores these issues by analyzing the performance of the US Army and US Marine Corps in urban combat in four major urban battles of the mid-twentieth century (Aachen 1944, Manila 1945, Seoul 1950, and Hue 1968). Alec Wahlman assesses each battle using a similar framework of capability categories, and separate chapters address urban warfare in American military thought. In the four battles, across a wide range of conditions, American forces were ultimately successful in capturing each city because of two factors: transferable competence and battlefield adaptation. The preparations US forces made for warfare writ large proved generally applicable to urban warfare. Battlefield adaptation, a strong suit of American forces, filled in where those overall preparations for combat needed fine tuning. From World War Two to Vietnam, however, there was a gradual reduction in tactical performance in the four battles.

Underground Warfare

This combat manual covers ground operations in urban settings. It clearly outlines skills unique to city fighting, including analyzing terrain, seizing blocks and buildings, setting up firing positions, scaling walls, employing snipers, evaluating civilian impact and effects of small arms and support weapons, and much more.

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