

m1a2 abrams technical manual

m1a2 abrams technical manual is an essential resource for military personnel, defense contractors, and enthusiasts seeking in-depth information about the M1A2 Abrams main battle tank. This manual provides comprehensive guidance on the tank's systems, maintenance procedures, troubleshooting methods, and operational techniques. In this article, you'll discover a detailed overview of the manual's structure, key technical specifications, step-by-step maintenance instructions, and insights into navigation and weapons systems. Readers will also gain an understanding of safety protocols and preventative measures necessary for effective tank operation. Whether you are preparing for field operations or technical training, this article covers the main topics found in the M1A2 Abrams technical manual, ensuring you are well-informed and ready to maximize the tank's capabilities.

- Overview of the M1A2 Abrams Technical Manual
- Key Technical Specifications of the M1A2 Abrams
- Maintenance Procedures and Schedules
- Operational Systems and Controls
- Weapons Systems and Ammunition Handling
- Navigation, Communication, and Targeting Technology
- Safety Protocols and Emergency Procedures

Overview of the M1A2 Abrams Technical Manual

The M1A2 Abrams technical manual is a comprehensive document designed to instruct operators and maintainers on all aspects of the tank's performance, upkeep, and systems integration. It organizes complex information into accessible sections, allowing users to quickly locate procedures for troubleshooting, routine maintenance, and operational guidance. This manual serves as the definitive reference for ensuring the M1A2 Abrams functions optimally in both training and combat scenarios. Detailed diagrams, step-by-step instructions, and safety notices are integrated throughout, supporting accurate and efficient execution of tank-related tasks.

In addition to mechanical guidance, the manual covers digital systems unique to the M1A2 variant, such as advanced fire control and communication suites. Its structured chapters facilitate learning and daily reference, making it indispensable for field technicians, crew members, and military trainers. The manual's

content is continuously updated to reflect technological upgrades and evolving operational standards.

Key Technical Specifications of the M1A2 Abrams

Engine and Mobility Systems

The M1A2 Abrams is powered by the Honeywell AGT1500 gas turbine engine, delivering up to 1,500 horsepower. The technical manual details the engine layout, fuel requirements, and cooling systems essential for reliable performance in diverse environments. It specifies optimal operating temperatures, fuel types, and lubrication schedules, ensuring longevity and high mobility on the battlefield.

- Engine: Honeywell AGT1500 turbine
- Horsepower: 1,500 hp
- Top Speed: 42 mph (67 km/h)
- Operational Range: 265 miles (426 km)
- Suspension: Torsion bar
- Fuel Type: JP-8, diesel, or gasoline

Armor and Protection Systems

The technical manual outlines the M1A2's composite armor, including layers of depleted uranium and ceramic materials. It explains the placement of explosive reactive armor (ERA) modules, smoke grenade launchers, and countermeasures against anti-tank guided missiles. This section provides maintenance instructions for armor upkeep, ensuring maximum survivability in hostile environments.

Maintenance Procedures and Schedules

Routine Maintenance Tasks

Routine maintenance is critical for optimal tank performance and reliability. The M1A2 Abrams technical manual breaks down daily, weekly, and monthly inspection schedules, emphasizing lubrication, fluid checks, and filter replacements. It provides visual guides and torque specifications for all fasteners,

minimizing the risk of mechanical failures during missions.

1. Daily inspection of tracks, wheels, and suspension
2. Checking engine oil, coolant, and hydraulic fluid levels
3. Cleaning and lubricating moving parts
4. Testing battery voltage and electrical connections
5. Inspecting armor integrity and reactive modules

Troubleshooting and Repairs

When issues arise, the technical manual offers systematic troubleshooting procedures for diagnosing faults in propulsion, electronics, and weapon systems. It includes flowcharts and decision trees to streamline diagnostics, guiding users through logical steps to isolate and repair faults. Detailed instructions cover component removal, replacement, and reassembly using approved tools and safety equipment.

Operational Systems and Controls

Driver's Controls and Instrumentation

The manual explains the layout and function of driver controls, including steering levers, throttle, gear selectors, and dashboard displays. Clear diagrams illustrate indicator lights, warning signals, and instrument panel readouts. Operators are instructed on startup procedures, gear shifting, braking, and maneuvering techniques for various terrains.

Commander and Gunner Interfaces

Commander and gunner stations are equipped with advanced digital interfaces for target acquisition, system monitoring, and communication. The technical manual details the use of multi-function displays, joystick controls, and heads-up displays. It covers procedures for system calibration, interface navigation, and situational awareness enhancement.

Weapons Systems and Ammunition Handling

Main Gun and Secondary Armaments

The M1A2 Abrams features a 120mm M256 smoothbore cannon, coaxial 7.62mm machine gun, and a .50 caliber M2 machine gun. The technical manual provides step-by-step loading instructions, aiming procedures, and maintenance routines for each weapon. Safety protocols for ammunition handling and misfire management are extensively covered.

- Main Armament: 120mm M256 smoothbore gun
- Coaxial: 7.62mm M240 machine gun
- Commander's: .50 caliber M2 machine gun
- Smoke grenade launchers
- Guidelines for cleaning and inspection

Fire Control and Targeting Systems

The technical manual describes the fire control system, which integrates ballistic computers, laser rangefinders, and thermal imaging sights. Operators learn how to calibrate sensors, input firing solutions, and engage targets under varying weather and visibility conditions. Troubleshooting procedures for fire control faults are provided, enabling rapid restoration of combat capability.

Navigation, Communication, and Targeting Technology

Navigation Systems

The M1A2 Abrams is equipped with integrated GPS, inertial navigation, and battlefield management computers. The technical manual explains the operation and configuration of these systems, including waypoint programming, route tracking, and terrain mapping. It provides detailed steps for updating software and troubleshooting connectivity issues.

Communication Equipment

Secure voice and data communications are vital for mission success. The manual outlines procedures for operating radios, intercoms, and encryption devices. It covers antenna installation, frequency management, and system diagnostics to maintain uninterrupted communication in the field.

Safety Protocols and Emergency Procedures

General Safety Guidelines

Safety is paramount when operating and maintaining the M1A2 Abrams. The technical manual lists mandatory safety gear, lockout procedures, and hazard warnings for all systems. It emphasizes situational awareness and safe handling of fuels, ammunition, and heavy components.

- Personal protective equipment requirements
- Safe engine and turret operation
- Fire prevention measures
- Handling hazardous materials
- First aid protocols

Emergency Procedures

In combat or training emergencies, the manual provides clear instructions for evacuation, fire suppression, and system shutdown. Rapid-response checklists guide crews through critical actions such as dealing with ammunition cook-off, engine fires, or electrical failures. Training recommendations ensure all crew members are prepared for unexpected scenarios.

Trending Questions and Answers About m1a2 abrams technical manual

Q: What is the primary purpose of the M1A2 Abrams technical manual?

A: The primary purpose of the M1A2 Abrams technical manual is to provide detailed instructions and guidance on operating, maintaining, and troubleshooting the tank's systems, ensuring safe and effective use in both training and combat environments.

Q: Which engine is covered in the M1A2 Abrams technical manual?

A: The manual covers the Honeywell AGT1500 gas turbine engine, detailing its specifications, maintenance routines, and troubleshooting procedures.

Q: How does the technical manual address weapon system maintenance?

A: The manual provides step-by-step procedures for maintaining the 120mm M256 main gun, secondary machine guns, and ammunition handling systems, including cleaning, inspection, and safety protocols.

Q: What safety protocols are included in the M1A2 Abrams technical manual?

A: The manual includes guidelines for personal protective equipment, safe handling of fuels and ammunition, fire prevention measures, and emergency procedures for various scenarios.

Q: Does the technical manual cover digital communication systems?

A: Yes, the manual details operation, maintenance, and troubleshooting of the M1A2 Abrams' radio, intercom, and encrypted communication systems.

Q: What are the recommended routine maintenance tasks according to the manual?

A: The manual recommends daily inspections of tracks and wheels, fluid level checks, cleaning and lubrication, battery testing, and armor integrity assessments.

Q: How are navigation systems explained in the technical manual?

A: The manual provides comprehensive instructions for using GPS, inertial navigation, and battlefield management computers, including waypoint programming and terrain mapping.

Q: What troubleshooting support does the manual offer for system faults?

A: It offers systematic troubleshooting steps, flowcharts, and decision trees for diagnosing and repairing faults in propulsion, electronics, and weapon systems.

Q: Are emergency procedures for combat situations included?

A: Yes, the manual includes emergency response checklists for evacuation, fire suppression, ammunition cook-off, and system shutdown.

Q: Who should use the M1A2 Abrams technical manual?

A: The manual is designed for tank operators, maintainers, field technicians, and military trainers who require authoritative guidance on the M1A2 Abrams' systems and procedures.

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M1A2 Abrams Technical Manual: A Comprehensive Guide to Accessing and Understanding the Documentation

Finding a comprehensive M1A2 Abrams technical manual can feel like searching for a needle in a haystack. This powerful main battle tank, a cornerstone of US military might, boasts incredibly complex systems. Understanding its intricacies requires access to detailed, authoritative documentation. This post serves as your guide, navigating the complexities of obtaining and interpreting M1A2 Abrams technical manuals, outlining the different types of manuals available, discussing accessibility, and providing insights into the information they contain. Forget wading through endless search results; we'll cut through the noise and provide you with the information you need.

Understanding the Variety of M1A2 Abrams Documentation

The term "technical manual" for the M1A2 Abrams is a broad umbrella. It encompasses a wide range of specialized documents, each covering different aspects of the tank's operation and maintenance. Let's break down the key types:

<h3>Operator's Manuals: Your On-the-Job Reference</h3>

These manuals are designed for the tank crew. They focus on the day-to-day operation of the tank, covering procedures like starting the engine, engaging the transmission, operating weapon systems, and performing basic maintenance tasks. They are typically written with a practical, hands-on approach, often including illustrations and step-by-step instructions.

<h3>Maintenance Manuals: The Mechanic's Bible</h3>

These manuals delve into the intricacies of repairing and maintaining the M1A2 Abrams. They contain detailed schematics, diagrams, and troubleshooting guides for every component, from the engine and transmission to the sophisticated fire control system. These manuals are essential for trained mechanics and technicians responsible for keeping the tank operational.

<h3>Parts Catalogs: Identifying and Ordering Components</h3>

Essential for both maintenance and repair, parts catalogs provide a comprehensive list of every part in the M1A2 Abrams, including part numbers, descriptions, and illustrations. This allows for easy identification and ordering of replacement components.

<h3>Technical Bulletins & Service Letters: Keeping Up-to-Date</h3>

These documents communicate critical updates, modifications, and safety information related to the M1A2 Abrams. They are crucial for ensuring that the tank is maintained to the highest standards and that any potential issues are addressed promptly.

Accessing M1A2 Abrams Technical Manuals: A Realistic Look

Unfortunately, comprehensive M1A2 Abrams technical manuals are not readily available to the public. Due to the sensitive nature of the information contained within – detailing the tank's capabilities and vulnerabilities – access is strictly controlled.

<h3>Official Channels: The Primary (But Difficult) Route</h3>

The primary source for these manuals would be the US Department of Defense and its contractors. However, access is limited to authorized personnel, such as military personnel, contractors working directly with the Army, and potentially some research institutions with appropriate security clearances.

<h3>Alternative Sources: Limited and Potentially Unreliable</h3>

You might encounter fragmented information online, possibly through unofficial forums or websites. However, the reliability and completeness of such sources should be approached with extreme caution. Information found in these places may be outdated, incomplete, or even inaccurate.

Deciphering the Information Within: Understanding the Complexity

Even with access to a legitimate manual, understanding the content requires significant technical expertise. The manuals are not written for the casual reader. They assume a high level of mechanical knowledge and familiarity with military terminology and procedures.

Conclusion

Obtaining and understanding M1A2 Abrams technical manuals presents significant challenges. The complexity of the tank and the sensitivity of the information necessitate strict control over its

dissemination. While publicly accessible comprehensive manuals are unlikely, understanding the various types of documentation and the limitations on access is crucial for anyone researching this powerful piece of military machinery.

FAQs

1. Are there any publicly available simplified versions of M1A2 Abrams manuals? No, there aren't any official simplified versions available to the public. The information is too sensitive for widespread distribution.
2. Can I find M1A2 Abrams technical data online through unofficial sources? While some information might be found online, its reliability and accuracy are questionable and should be treated with extreme skepticism.
3. What kind of security clearance is needed to access the full technical manuals? The level of clearance required varies depending on the specific document and the information it contains, but it would generally be a high-level security clearance.
4. Are there any books or documentaries that provide an overview of the M1A2 Abrams' technical aspects? Yes, there are several books and documentaries that offer an overview, though they won't provide the detailed technical specifics found in official manuals.
5. Where can I find information on the history and development of the M1A2 Abrams? Publicly accessible sources like military history websites, books, and academic journals provide a wealth of information on the Abrams' history and development.

m1a2 abrams technical manual: M1 Abrams Main Battle Tank Manual Bruce Oliver Newsome, Gregory Walton, 2017-06-10 The American M1 Abrams main battle tank is a revolutionary design: it broke an evolutionary development lineage from the M20 medium tank of 1941 to the M60 (which it replaced, and which stayed in production until 1987). The M1 remains the only main battle tank in the inventories of the US Army and the US Marine Corps, with years of service to come, while no replacement has been procured. It is believed that the M1 will easily serve for more than 50 years in the US alone. The US retains about 6,000 M1s, while almost 2,000 are in use with the armies of other countries including Australia, Egypt, Iraq, Kuwait, and Saudi Arabia.

m1a2 abrams technical manual: Technical Report , 1999

m1a2 abrams technical manual: Army Logistician , 2000 The official magazine of United States Army logistics.

m1a2 abrams technical manual: The Panzer Killers Daniel P. Bolger, 2021-05-25 A general-turned-historian reveals the remarkable battlefield heroics of Major General Maurice Rose, the World War II tank commander whose 3rd Armored Division struck fear into the hearts of Hitler's panzer crews. "The Panzer Killers is a great book, vividly written and shrewdly observed."—The Wall Street Journal Two months after D-Day, the Allies found themselves in a stalemate in Normandy, having suffered enormous casualties attempting to push through hedgerow country. Troops were spent, and American tankers, lacking the tactics and leadership to deal with the terrain, were losing their spirit. General George Patton and the other top U.S. commanders needed an officer who knew how to break the impasse and roll over the Germans—they needed one man with the grit and the

vision to take the war all the way to the Rhine. Patton and his peers selected Maurice Rose. The son of a rabbi, Rose never discussed his Jewish heritage. But his ferocity on the battlefield reflected an inner flame. He led his 3rd Armored Division not from a command post but from the first vehicle in formation, charging headfirst into a fight. He devised innovative tactics, made the most of American weapons, and personally chose the cadre of young officers who drove his division forward. From Normandy to the West Wall, from the Battle of the Bulge to the final charge across Germany, Maurice Rose's deadly division of tanks blasted through enemy lines and pursued the enemy with a remarkable intensity. In *The Panzer Killers*, Daniel P. Bolger, a retired lieutenant general and Iraq War veteran, offers up a lively, dramatic tale of Rose's heroism. Along the way, Bolger infuses the narrative with fascinating insights that could only come from an author who has commanded tank forces in combat. The result is a unique and masterful story of battlefield leadership, destined to become a classic.

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m1a2 abrams technical manual: *Armor* , 1997

m1a2 abrams technical manual: *Army Sustainment* , 2017-05 The Department of the Army's official professional bulletin on sustainment, publishing timely, authoritative information on Army and Defense sustainment plans, programs, policies, operations, procedures, and doctrine for the benefit of all sustainment personnel.

m1a2 abrams technical manual: *Exercising of Recoil Mechanisms and Equilibrators* , 1993

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m1a2 abrams technical manual: *M1 Abrams* David Grummitt, 2019-11-30 A history of the iconic vehicle: "This modeler's delight showcases the M1 and its variations with all sorts of camouflage schemes." —Historical Miniatures Gaming Society Since its introduction in 1981, at the height of the Cold War, the Abrams main battle tank has been one of the most visible symbols of American military power, and it is the fascinating subject of this heavily illustrated historical and modeling guide in the TankCraft series by David Grummitt. Designed to meet head-on the massed tank forces of the Warsaw Pact, its combat debut actually came in a different scenario in 1991, during the First Gulf War. Since then it has served in a peacekeeping role in the former Yugoslavia and seen combat in Iraq, Afghanistan, and Yemen. It has gone through a series of modifications and modernizations that see it set to remain the backbone of the US Army until at least 2050. As well as charting the development and combat history of the vehicle, this book is illustrated throughout with color photos and specially commissioned color profiles. Five different models, covering the service history of the Abrams, are featured, as is a modeler's guide to the existing kits and accessories in the all the popular scales.

m1a2 abrams technical manual: *M1A2 Abrams Main Battle Tank 1993–2018* Steven J. Zaloga, 2019-03-21 Since the Gulf War, the Abrams tank has undergone a transformation, while fighting in conflicts across the world. Its M1A1 and M1A2 variants have seen great improvements made to this iconic tank, including in fire-control, armour protection, and thermal imaging technology. Involvement in the conflicts in Iraq and Afghanistan necessitated a number of upgrades and modifications as the United States fought two of its longest wars. Recent years have seen new variants of the series such as the ABV Assault Breacher Vehicle and M104 Wolverine Heavy Assault Bridge. Over the past few decades, the M1A1 Abrams has also been extensively exported and is license produced in Egypt. The long-awaited follow-up to *NVG 2 M1 Abrams Main Battle Tank 1982–92* (1993), this fully illustrated study examines the Abrams tanks' last quarter-century of service with both the United States and its various foreign operators with a focus on its combat history.

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1996

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m1a2 abrams technical manual: *Armoured Fist* Charlotte Anker, Paul Mathless, Marion Ferguson Briggs, 2004 Tanks do not fight alone: ordinarily, they are accompanied by lightly armoured fighting vehicles, infantry carriers, helicopter gunships, engineers, mobile artillery, and other complimentary forces. Nor do they thrive everywhere. M48 Patton tanks and M113 armoured cavalry assault vehicles could be formidable in sweep operations in Vietnam but their scope was limited. Much of the country's jungled terrain deterred armour. In the bloody territorial struggle fought by Iraq and Iran from 1980 to 1988, armour was sometimes thwarted by a marshy battle zone. Nonetheless, the tank and its deadly retinue have remained at the centre of modern land warfare, demonstrating their primacy in arenas ranging from the deserts of the Middle East to the urban battlefields of Bucharest and Beijing.

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humor and frank candor, author Bacil Donovan Warren shares his personal experience, as well as that of his fellow tankers, as part of the US Army's 3d Armored Cavalry Regiment (the Brave Rifles) in Saudi Arabia and Iraq. Warren recounts the initial shock of hearing about Iraq's invasion of Kuwait and his Regiment's preparation for deployment during Operation Desert Shield. He describes the stress and sometimes mind-numbing boredom of being deployed deep in the desert of Saudi Arabia, constantly preparing for a possible Iraqi invasion. He recalls the terrifying experience of the start of the air war of Operation Desert Storm and the workmanlike action during combat against Iraq's Republican Guard forces during Operation Desert Sabre. *With It or in It* brings clarity and focus to their unceasing efforts to bring the conflict to a swift and decisive end. Finally, Warren describes the triumphant return of the Brave Rifles to Ft. Bliss, Texas, and the waiting arms of their families and loved ones.

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m1a2 abrams technical manual: Breaking the Mold Kendall D. Gott, 2006 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 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.

m1a2 abrams technical manual: *Thunder Run* David Zucchino, 2007-12-01 "A Pulitzer Prize-winning reporter provides a brilliant account of the harrowing drive into Baghdad by an American armor brigade." —Seattle Post-Intelligencer Based on reporting that was a finalist for the Pulitzer Prize, *Thunder Run* chronicles one of the boldest gambles in modern military history: the surprise assault on Baghdad by the Spartan Brigade, the Second Brigade of the Third Infantry Division (Mechanized). Three battalions and fewer than a thousand men launched a violent thrust of tanks and Bradley Fighting Vehicles into the heart of a city of five million people—and in three days of bloody combat ended the Iraqi war. More than just a rendering of a single battle, *Thunder Run* candidly recounts how soldiers respond under fire and stress and how human frailties are magnified in a war zone. The product of over a hundred interviews with commanders and men from the Second Brigade, it is a riveting firsthand account of how a single armored brigade was able to capture an Arab capital defended by one of the world's largest armies. "The best account of combat since *Black Hawk Down*." —Men's Journal

m1a2 abrams technical manual: *Using Group Knowledge to Track Multiple Vehicles Moving Across Terrain* Edward John Sobiesk, 2000

m1a2 abrams technical manual: *Panther Tank Enthusiasts' Manual* Mark Healy, 2019-08-27 Regarded by many as one of the greatest tanks ever built, the German Panther is probably the finest medium tank of the Second World War and certainly the most numerous German panzer in wartime service, with some 7,000 built. It combined firepower, armour protection and mobility that was unmatched by any other tank of the period. In the *Panther Tank Enthusiasts' Manual*, author Mark Healy looks at the development, construction and fighting qualities of the Panther, as well as including insights into what it was like to operate and maintain. He focuses on surviving Panthers at the German Armour Museum in Munster (Panther Ausf A) and the later Panther Ausf G at the Tank Museum, Bovington, as his centrepieces and draws on a range of documentary and photographic information sources in Germany, the USA and France.

m1a2 abrams technical manual: *Infantry*, 2000

m1a2 abrams technical manual: *M1 Abrams vs T-72 Ural* Steven J. Zaloga, 2011-01-01 The Gulf War bore witness to a number of deadly encounters between these two great adversaries. Heavily armoured, highly mobile and capable of killing at over 2500m the M1 Abrams is, to this day, a veritable fighting machine. Superior to both Iraq's Soviet era T-55 and T-62 tanks, nearly all sources claim that no Abrams tank has ever been destroyed by enemy fire. Despite entering service in 1980, the M1 Abrams remained untested in combat until the Gulf War in 1991, where it was to be confronted by its archenemy the Iraqi-assembled Soviet-designed T-72. Entering production in 1971, the T-72 arguably outstripped its contemporaries in a balance of mobility, protection and firepower. By the time of Operation Desert Storm, however, the tables had turned and the tank suffered due to low quality ammunition and poorly trained crews. In this fascinating study, Steven Zaloga pits these two great fighting machines against one another, plotting the development of the Cold War until both tanks met in combat in the deserts of Iraq and Kuwait.

m1a2 abrams technical manual: *Annual Historical Review* Rock Island Arsenal (Ill.), 1994

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m1a2 abrams technical manual: *On Point* Gregory Fontenot, E. J. Degen, David Tohn, 2005 Den amerikanske hærs første officielle historiske beretning om operationerne i den anden Irakiske Krig, Operation Iraqi Freedom, (OIF). Fra forberedelserne, mobiliseringen, forlægningen af enhederne til indsættelsen af disse i kampene ved Talil og As Samawah, An Najaf og de afsluttende kampe ved Bagdad. Foruden en detaljeret gennemgang af de enkelte kampenheder (Order of Battle),

beskrives og analyseres udviklingen i anvendte våben og doktriner fra den første til den anden Golf Krig.

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