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		JP	Operational Art
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Army Aviation Operations
Field Manual 1-100
21 February 1997

General employment of Army aviation for warfighting and other operations.

This is Army aviation's capstone manual. It provides general guidance concerning the employment of Army aviation on the modern battlefield. It prescribes doctrine above the level of tactics, techniques, and procedures.

This manual is intended for use by Aviation commanders, staff officers, and all soldiers within aviation units and theater, corps, division, and brigade commanders and their staffs. It applies to all members of the combined arms team; joint, multinational, and interagency operations; and special operations, or contingency, forces that operate with Army aviation forces.



Attack Helicopter Operations
Field Manual 1-112
2 April 1997

This manual is the Army's doctrinal manual for attack helicopter operations. It discusses the organization, capabilities, and employment of attack helicopter units. It describes the ARI force structure and the associated TTP based on currently fielded systems. It sets forth doctrinal principles that guide the conduct of light and heavy attack helicopter operations.

This manual is designed to assist attack helicopter commanders, their staffs, and subordinate company commanders in the conduct of training and combat operations. It also serves as a guide for corps, division, and brigade commanders and their staffs.



Utility And Cargo Helicopter Operations
Field Manual 1-113
25 June 1997

This manual provides doctrine for employing the utility and cargo helicopter unit. It describes how utility and cargo helicopter units plan and conduct a variety of combat, combat support, and combat service support missions. It provides aircraft characteristics and planning considerations for the use of utility and cargo aircraft. It provides an example of a initial planning conference checklist, a aircrew briefing format, and a liaison officer checklist and a liaison officer briefing. It discusses the use of UH-60s and CH-47s for conducting FARP operations (Fat Hawk/Fat Cow). It provides supplemental information for risk management and risk assessment and aircraft survivability. It provides a sample of a flight crew mission brief. It discusses assembly area operations for the utility and cargo helicopter unit.

This manual applies to commanders and staffs who will lead, employ, or fight with the utility and cargo helicopter units. It also serves as a reference document for flight crews learning to conduct various utility and/or cargo helicopter operations.



**Regimental Aviation Squadron - Tactics, Techniques
And Procedures For The
Field Manual 1-114
20 February 1991**

This manual describes the organizational structure of the regimental aviation squadron (RAS) and its doctrinal and tactical employment. It provides supplemental material on risk management, the threat, NBC operations, reports and orders, Kiowa Warrior employment, characteristics, and unit movement.

This publication applies to commanders and staffs who will lead, employ, or fight with a RAS and to soldiers assigned to this type of organization. It also serves as a reference for flight crews learning to understand and conduct reconnaissance and screening operations in the RAS.



**Air Cavalry/Reconnaissance Troop - Tactics, Techniques, and Procedures
For
Field Manual 1-116
20 February 1991**

This manual describes the organizational structure of the air troop and its doctrinal and tactical employment. Appendixes A through H provide supplemental material on risk management, the threat, NBC operations, orders and reports, aeroscout observer responsibilities, target handover procedures, aerial observation, and Kiowa Warrior employment. The L-series TOE serves as the basis for the unit discussed.

The air cavalry/reconnaissance troop is an organic element of the regimental aviation squadron, cavalry squadron, reconnaissance squadron, or air reconnaissance squadron. It is organized and equipped to perform reconnaissance and screening operations in support of the overall scheme of maneuver. Successful employment of this organization on the modern battlefield depends heavily on the synergistic efforts of combined arms forces.

This manual is intended for air troop commanders as well as squadron commanders. It is also a practical tool for ground commanders, because ground and air troops will likely be employed in tandem. This publication applies to commanders and staffs who will lead, employ, or fight with an air troop and to soldiers assigned to this type of organization. It also serves as a reference for flight crews learning to understand and conduct reconnaissance and screening operations in the air troop.



**Helicopter Gunnery
Field Manual 1-140
29 March 1996**

This manual describes the helicopter gunnery training and qualification portion of Army Aviation's Aircrew Training Program. It provides tactics, techniques, and procedures for crews, teams, platoons, companies, and battalions to engage and destroy enemy targets. It links the training and qualifications of helicopter weapons systems to the doctrinal employment of Army Aviation. It outlines a standardized, progressive program to train weapon system proficiency through the conduct of helicopter gunnery tables.

This manual is written for commanders, staffs, aircrews, and instructors. It is for use in coordinating, planning, executing, and teaching helicopter gunnery training and qualification.



Chemical Accident Contamination Control
Field Manual 3-21
23 February 1978
28 December 1979-Change 1

This manual covers procedures and techniques for reducing chemical hazards from accidents and incidents. It provides guidance for training, equipping, and utilizing teams for contamination control during accidents/incidents involving chemical surety material. It describes procedures for detecting, identifying, controlling, and decontaminating chemical contamination. This manual is designed primarily for peacetime operations but is applicable in wartime operations.

Specific guidance is provided for nuclear, biological, chemical teams and decontamination teams, but the general principles presented apply to all special teams and personnel concerned with chemical accident/incident control).



**Brigade Engineer And Engineer Company Combat Operations (Airborne,
Air Assault, Light)
Field Manual 5-7-30
28 December 1994**

This manual is the capstone manual for engineer support to airborne, air assault, and light infantry brigade operations. It serves as a guide on the organization, capabilities, and employment of engineers in support of a light brigade. It addresses engineer tactics, techniques, and procedures (TTP) as necessary to emphasize critical points or principles. The TTP are intended to be descriptive rather than prescriptive and are not a replacement for the TTP or unit standing operating procedures unique to the supported brigade.

This manual serves as a guide for light brigade engineers and light engineer company commanders in planning, integrating, and conducting engineer operations to support a light brigade. It also serves as a guide to the brigade staff and subordinate maneuver commanders on the organization, capabilities, and employment of engineers as a force multiplier. The manual provides division level engineer planners with the principles of brigade engineer operations affecting their integration into brigade operations.



**Combat Engineer Platoon
Field Manual 5-10
3 October 1995**

This manual describes how the engineer platoon supports the total combined arms effort. It is designed as a companion manual for FM 5-34 Engineer Field Data and is structured using the following Battlefield Operating Systems (BOS) as a frame-work: intelligence, maneuver, mobility and survivability, fire support, air defense, combat service support, and command and control.



**Engineer Intelligence
Field Manual 5-30
22 September 1967
1 October 1971 - Change 1**

Obsolete. Superseded by FM 5-170 Engineer Reconnaissance 5 May 98.

This manual serves as a guide, general reference, and training text on the purpose and scope of engineer intelligence and how the engineers may be utilized to meet intelligence requirements.



Terrain Analysis
Field Manual 5-33
11 July 1990
8 September 1992 - Change 1

This field manual prescribes basic doctrine and is intended to serve as a primary source of the most current available information on terrain analysis procedures for all personnel who plan, supervise, and conduct terrain analysis. The manual discusses the impact of the terrain and the weather on operations.

Terrain analysis, an integral part of the intelligence preparation of the battlefield (IPB), plays a key role in any military operation. During peacetime, terrain analysts build extensive data bases for each potential area of operations. They provide a base for all intelligence operations, tactical decisions, and tactical operations. They also support the planning and execution of most other battlefield functions.



**Engineer Field Data
Field Manual 5-34
14 September 1987**

This field manual provides detailed planning data for engineer support to combat operations, mobility, survivability, reconnaissance, demolitions, bridging, roads, airfields, rigging and vehicle recovery.



Armored Task-Force Engineer Combat Operations
Field Manual 5-71-2
28 June 1996

This manual describes how the mechanized division engineer company supports a mechanized-infantry or armored battalion task force (TF). It addresses engineer organization, tactics, techniques, and procedures (TTP) that highlight critical principles. However, the TTP are intended to be descriptive rather than prescriptive; they are not a replacement for the TTP and standing operating procedures (SOPs) that are unique to the supported unit.

This manual serves as a guide for both TF engineers and subordinate leaders in planning, integrating, and conducting engineer operations. It also serves as a guide for the TF staff and subordinate maneuver commanders on the organization, capabilities, and employment of TF engineers. This publication is also designed to be used by corps combat, separate, and armored cavalry mechanized combat-engineer companies.



Brigade Engineer Combat Operations (Armored)
Field Manual 5-71-3
3 October 1995

This manual describes how the mechanized division engineer (DIVEN) battalion supports an armored brigade. It addresses engineer organization, tactics, techniques, and procedures (TTP) as necessary to emphasize critical principles. The TTP are intended to be descriptive rather than prescriptive and are not a replacement for the TTP and standing operating procedures (SOPS) unique to the supported unit.

This manual serves as a guide for brigade engineers, their staffs, and subordinate commanders in planning, integrating, and conducting engineer operations. It also serves as a guide for the brigade staff and subordinate maneuver commanders on the organization, capabilities, and employment of engineers as a brigade combat multiplier.



Division Engineer Combat Operations
Field Manual 5-71-100
22 April 1993

This manual is the capstone manual for engineer support to division operations. It serves as a guide for planning, integrating, and conducting engineer operations. It addresses engineer tactics, techniques, and procedures (TTP) as necessary to emphasize critical principles. However, the TTP are intended to be descriptive rather than prescriptive and are not a replacement for the TTP and standing operating procedures (SOPs) unique to the supported division.

This manual serves as a guide for division engineers, their staffs, and subordinate commanders. It also serves as a guide for the division staff and subordinate maneuver commanders on the organization, capabilities, and employment of engineers as a division combat multiplier. Finally, this manual provides corps-level engineer commanders with the principles of division engineer operations effecting their integration into division engineer operations.



Corps Engineer Operations
Field Manual 5-100-15
6 June 1995

This manual is a guide for the employment of engineer forces in support of a United States Army corps. It addresses the role, organization, and command and control of corps engineers and the conduct of corps-level engineer operations.

The primary users of this manual are the corps commander and his staff, the corps engineer and his staff, engineer units subordinate to the corps engineer brigade, and theater engineer organizations at echelons above corps. Other users will be engineer organizations supporting maneuver units subordinate to the corps and sister serviced commanders and staffs, the United States Army Corps of Engineers, and government contractors.



Mobility
Field Manual 5-101
23 January 1985

This manual prescribes engineer doctrine and procedures for support to mobility. It describes the effects of natural and other restrictions to movement and presents methods of counteracting these restrictions. This manual includes discussions of the following six areas of engineering support of mobility:

1. Detection, bypass, marking, and breaching (neutralization) of minefield.
2. Detection, bypass, marking, and reduction of obstacles other than minefield.
3. Gap crossing.
4. Construction and maintenance of combat roads and trails.
5. Expedient construction necessary to support Army aviation and Air Force ground facility requirements.
6. Determination of the effects of terrain and weather on ground vehicle mobility.

This manual was developed for engineer unit commanders, staff, and personnel who must analyze, plan, and execute engineer support and for maneuver unit commanders and staff who will use engineer mobility support.



Countermobility
Field Manual 5-102
14 March 1985

This manual provides basic information on countermobility methods, planning, and execution. Countermobility support is divided into mine warfare and obstacle development, each with a goal of delaying, stopping, or channeling the enemy. Mine warfare information is provided on mine categories, methods and systems of delivery, employment, reporting, recording, and marking. Obstacle development information is provided for planning and emplacing obstacles other than minefields.



Survivability
Field Manual 5-103
10 June 1985

This manual implements survivability tactics for all branches of the combined arms team. Survivability doctrine addresses when, where, and how fighting and protective battlefield positions are prepared for individual soldiers, troop units, vehicles, weapons, and equipment. The full spectrum of survivability encompasses planning and locating position sites, designing adequate overhead cover, analyzing terrain conditions and construction materials, selecting excavation methods, and countering the effects of direct and indirect fire weapons.

This manual is intended for engineer commanders, noncommissioned officers, and staff officers who support and advise the combined arms team, as well as combat arms commanders and staff officers who establish priorities, allocate resources, and integrate combat engineer support.



**General Engineering
Field Manual 5-104
12 November 1986**

This manual provides a doctrinal basis for the planning and execution of general engineering in the Theater of Operations. General engineering sustains military forces in the theater through the performance of facility construction and repair, and through acquisition, maintenance, and disposal of real property. This manual is primarily concerned with support to noncommitted forces within the corps and communications zone areas. It describes responsibilities, relationships, procedures, capabilities, constraints, and planning considerations in the conduct of general engineering tasks. The manual was designed to highlight doctrinal procedures and to give an overview of the general engineering functional area.

This manual was developed for commanders and planning staffs at all levels who require engineer assistance, or are required to give engineer assistance in tasks falling under the general engineering purview.



Topographic Operations
Field Manual 5-105
30 September 1993

This manual provides the principal doctrine for topographic operations in support of military operations. It describes the functions of topographic operations as they relate to extended operations in terms of depth, time, synchronization, and unity of effort. Topographic operations consist of an interrelated flow of information and products through the various Department of Defense agencies. Through agency intelligence and other engineer channels this flow of information is passed onto the tactical units. These operations provide the commander with an effective means to evaluate the battlefield in terms of mobility, countermobility, and survivability; gain knowledge of the battlefield; visualize the terrain; and apply all available topographic information on each unit's areas of operations and interest.



**Engineer Operations Short Of War
Field Manual 5-114
13 July 1992**

This manual contains doctrine for the conduct of engineer operations short of war. These are operations conducted in peacetime or during conflict. The manual addresses the impact of political, informational, and economic factors on military planning in these environments. Appendices in this manual provide specific information on force protection, unit deployment considerations, the capabilities of selected engineer cellular teams, and the United States Army Corps of Engineers.

This manual provides doctrine to commanders and staffs at battalion level and above concerning the employment of engineer units at all levels in military operations short of war. Other branches will use the manual for guidance when employing engineer units in this arena. It serves as a source of information for non-Department of the Army planners who may be involved in operations with Army engineer units, to include members of other Department of Defense agencies; non-DOD agencies such as the Department of State and the Drug Enforcement Administration; and federal, state, and local emergency management agencies.



Engineer Operations: Echelons Above Corps
Field Manual 5-116
7 March 1989

This manual provides doctrine concerning the employment of engineer units at echelons above corps. These units will be required to construct, maintain, and rehabilitate the logistical infrastructure needed for operational sustainment of the combat forces. Some EAC engineer units may operate as far forward as the corps rear area, but generally most will operate in the communications zone (COMMZ).



Engineer Reconnaissance
Field Manual 5-170
5 May 1998

This manual describes how engineer recon teams support and augment a maneuver battalion or brigade's recon effort. It addresses engineer tactics, techniques, and procedures (TTP) that highlight critical principles. However, the TTP are intended to be descriptive rather than prescriptive; they are not a replacement for the TTP and standing operating procedures (SOPs) that are unique to the supported unit.

This manual serves as a guide for both brigade and task force (TF) engineers, as well as for subordinate leaders (especially recon team leaders) in planning, integrating, and conducting recon operations. It also serves as a guide for the brigade and TF staffs and subordinate maneuver commanders on the organization, capabilities, and employment of engineer recon teams.



**The Field Artillery Cannon Battalion - Tactics, Techniques, And
Procedures For
Field Manual 6-20-1
29 November 1990**

This publication sets forth doctrine pertaining to organization, command and control, operations and tactics, techniques, and procedures for the field artillery cannon battalion under either J-series or L-series tables of organization and equipment (TOEs). It establishes the responsibilities and general duties of key personnel. Its primary focus is on the unit performing the mission of direct support. The tactics and techniques presented apply equally to those battalions that are equipped with the tactical fire direction system (TACFIRE) and those battalions that are not. Any TACFIRE-specific procedures are noted as such. Integration of the operations of TACFIRE and non-TACFIRE units is addressed in Appendix A. Operations in support of both heavy and light maneuver forces are addressed, as are operations in special environments.

This manual serves as a guide for the commander of a field artillery cannon battalion. It is also a guide for the staff, battery commanders, and commanders of supported units.



**Corps Artillery, Division Artillery, and Field Artillery Brigade
Headquarters - Tactics, Techniques, and Procedures for
Field Manual 6-20-2
7 January 1993**

This manual describes field artillery operations tactics, techniques, and procedures for corps artillery, division artillery, and field artillery brigade operations organized under the L-series tables of organization and equipment (TOE).

This manual serves as a guide for field artillery commanders and their staffs in corps artilleries, division artilleries, and field artillery brigades.



**The Targeting Process - Tactics, Techniques, And Procedures For
Field Manual 6-20-10
8 May 1996**

This manual describes the targeting process from task force to corps level. The process is described without tying it to specific hardware. The targeting process includes locating, identifying, classifying, tracking, and attacking targets and assessing battle damage. Targeting is a tactical decision-making process used to focus the battlefield operating systems to achieve the commander's intent. The functions associated with this methodology help the commander to decide what to attack with his fire support system, how to acquire those targets, and when those targets are found, how to attack them in a way that disrupts, delays or limits the enemy's ability to achieve his objectives.

This manual describes the targeting process used by United States Army units operating as part of a joint force. It is descriptive and not prescriptive in nature and has applicability in any theater of operation. This publication may be used by the US Army and US Marine Corps forces during training, exercises, and contingency operations.



**Fire Support for Corps and Division Operations - Tactics, Techniques, And
Procedures For
Field Manual 6-20-30
18 October 1989**

This manual prescribes fire support doctrine for corps and division operations.

This manual is designed to assist fire support coordinators and their staffs in the conduct of combat operations. It also serves as a guide for echelons above corps regarding the organization, capabilities, and employment of fire support. Other service commanders and staffs will find this publication useful in planning fire support for joint operations.



**Fire Support For Brigade Operations (Heavy) - Tactics, Techniques, And
Procedures For
Field Manual 6-20-40
5 January 1990**

This manual describes maneuver techniques and fire support considerations at maneuver brigade and below for heavy forces. It establishes responsibilities and duties of key personnel. It is a how-to manual for heavy forces fire support officers and enlisted personnel at maneuver company, battalion and brigade levels.

This manual focuses on fire support officers (FSOs) in mechanized infantry, armor, and task forces at brigade and below.



**Fire Support For Brigade Operations (Light) - Tactics, Techniques, And
Procedures For
Field Manual 6-20-50
5 January 1990**

This manual describes maneuver techniques and fire support considerations at maneuver brigade and below for light forces. It establishes responsibilities and duties of key personnel. It is a how-to manual for light forces fire support officers and enlisted personnel at maneuver company, battalion, and brigade levels.

This manual focuses on fire support officers (FSOs) in light infantry, airborne infantry, air assault infantry, and infantry at brigade and below.



**Observed Fire - Tactics, Techniques, And Procedures For
Field Manual 6-30
16 July 1991**

This manual discusses observed fire procedures, with the firing unit using both manual and automated fire direction techniques. Digital and automated observed fire procedures are discussed in the appendixes. It explains observed fire procedures used by units in combat and explains how observed fire training is conducted in peacetime to meet combat requirements.

The target audience for this publication is the field artillery fire support team (FIST) personnel and other fire support observers, to include aerial fire support observers (AFSOs), combat observation/lasing teams (COLTs), infantry scouts, and personnel who may become involved in rear area combat operations.



**The Field Artillery Cannon Battery - Tactics, Techniques, And Procedures
For
Field Manual 6-50
23 December 1996**

This manual addresses doctrine and procedures for cannon battery operations and training and sets forth suggested duties and responsibilities of key personnel. It is a how-to-train manual intended to provide general guidance to the commander and his principal subordinates. It is designed for battery leaders and should be used in conjunction with equipment technical manuals, Marine Corps combat readiness evaluation system (MCCRES), Marine Corps individual training standards (ITS), Army training and evaluation program (ARTEP) mission training plans (AMTPs), soldier manuals, and trainer's guides.

This manual is designed primarily for the cannon battery.



**Multiple Launch Rocket System - Tactics, Techniques And Procedures For
Field Manual 6-60
23 April 1996**

This manual provides doctrine pertaining to the organization, equipment, command and control, operations, and tactics, techniques, and procedures for the multiple launch rocket system (MLRS) battalion, battery, and platoon. It establishes the responsibilities and general duties of key personnel.

This manual is designed primarily for the MLRS battalion, battery, and platoon. It also is a guide for corps artillery, field artillery brigade, heavy divisional artillery. Marine artillery regiments and their staffs, and fire support coordinators and their supported commanders and staffs.



**Fire Support for the Combined Arms Commander - Tactics, Techniques,
And Procedures For
Field Manual 6-71
29 September 1994**

This manual discusses procedures for the employment of mortars, artillery, naval gunfire, air support, and Army aviation in support of the combined arms commander.

This manual is intended for the combined arms brigade or battalion commander, and their staffs to clarify the art of applying fires at the right time and place on the battlefield and to synchronize fires with the scheme of maneuver.



**Field Artillery Target Acquisition - Tactics, Techniques, And Procedures
For
Field Manual 6-121
25 September 1990**

This manual describes the doctrine, organization, tactics, techniques, and procedures for the management of field artillery target acquisition (TA) equipment, personnel, and systems. It describes TA organizations including target acquisition batteries in the armored and mechanized infantry divisions and the target acquisition platoon in each separate maneuver brigade. Also included are target acquisition detachments assigned at corps level. It also describes TA assets that are organic to the direct support (DS) battalion (Bn) in the light, airborne, and air assault divisions.

This manual is designed for all personnel involved in the TA process. These personnel include: maneuver commanders, field artillery commanders and their staffs, fire support element personnel, field artillery target acquisition personnel, members of the division artillery and FA brigade tactical operations centers, personnel of the target acquisition battery and corps TA detachment, and all others involved in the targeting process, such as the corps and division G2s and all personnel in intelligence channels.



**The Mechanized Infantry Platoon and Squad (APC)
Field Manual 7-7
15 March 1985**

This manual describes tactics, techniques, and operational procedures for the mechanized infantry platoon and squad equipped with the armored personnel carrier M113 under the J-series tables of organization and equipment (TOE). It is also the squad and platoon manual for mechanized infantry operation under the H-series TOE with special considerations. These considerations, arising from the different structures, are highlighted in appendix A.



Mechanized Infantry Platoon and Squad (Bradley)
Field Manual 7-7J
7 May 1993

This manual describes tactics, techniques, and procedures for the mechanized infantry platoon and squad equipped with the M2 Bradley fighting vehicle.



**Infantry Rifle Platoon and Squad
Field Manual 7-8
22 April 1992**

This manual provides doctrine, tactics, techniques and procedures for infantry platoon and squad combat. Covers infantry, airborne, air assault, ranger, and light infantry platoons and squads. This manual is organized with separate chapters covering doctrine, tactics, techniques and procedures, and includes a tactical standing operating procedure. This manual is designed to fit in the cargo pocket of the leader's Battle Dress Uniform. It should be used in the field as a guide to training and combat operations. This manual is designed to fit in the cargo pocket of the leader's Battle Dress Uniform.

The primary audiences for this manual are the infantry rifle platoon leader platoon sergeant, and squad and fire team leaders; instructors in TRADOC schools; and writers of infantry training literature. Secondary audiences include other infantry leaders and staff officers, service schools, and ROTC and military academy instructors.



**The Infantry Battalion
Field Manual 7-20
6 April 1992**

This manual provides principles, tactics, techniques, and procedures for the combat employment of the infantry battalion. It doctrine for the infantry battalion to use in combat. Rather than try to solve every tactical situation, this manual establishes a common base of tactical knowledge from which specific solutions to battalion level tactical problems can be developed.

The target audience for this manual includes battalion commanders and staffs, company commanders, and special platoon leaders for all infantry battalions - light, air assault, airborne, range, and H-edition (Reserve Component). It also includes service school, ROTC, and military academy instructors, and others who require a single source reference to dismounted infantry battalion operations.



**The Infantry Brigade
Field Manual 7-30
3 October 1995**

This manual describes the organization, capabilities, and employment of the dismounted infantry brigade - infantry, light infantry, airborne, air assault, and ranger. The primary focus of this manual is infantry warfighting and conventional combat operations. It also serves as a guide regarding the organization, capabilities, and employment of the brigade. This manual provides the link in warfighting doctrine between the division and the battalion. In this manual, infantry includes all types of dismounted infantry brigades - infantry, light, airborne, air assault, and ranger. For the purposes of this manual, the enhanced infantry brigades of the Army National Guard are considered separate infantry brigades. The organizational charts provided are for general planning purposes only.

This manual is designed to assist the brigade commander and his staff in planning, preparing, and executing combat operations within the range of military operations.



Tactical Employment of Mortars
Field Manual 7-90
9 October 1992

This manual provides doctrine, tactics, techniques, and procedures for the employment of mortar squads, sections, and platoons in combat. This publication also contains guidance on how the mortar unit's fires and displacement are best planned and employed to sustain the commander's intent for fire support.

The target audience of this publication includes mortar squad, section, and platoon leaders, company and battalion commanders, battalion staff officers, and all others responsible for controlling and coordinating fire support during mounted or dismounted combined arms operations. This manual is also for use by training developers as a source document for the combat critical tasks and missions of mortar sections and platoons. This publication serves as the primary reference for both resident and nonresident mortar tactical employment instruction presented to cadets, officer candidates, and both commissioned and noncommissioned officers.



**The Infantry Reconnaissance Platoon and Squad (Airborne, Air Assault,
Light Infantry)
Field Manual 7-92
23 December 1992**

This manual describes the doctrinal and tactical employment of the reconnaissance platoon in airborne, air assault, and light infantry battalions. This manual also provides guidance for employing the reconnaissance platoon or infantry platoons that conduct reconnaissance and security operations.



Long-Range Surveillance Unit Operations

Field Manual 7-93

3 October 1995

This manual provides doctrine, tactics, techniques, and procedures on how long-range surveillance units perform combat operations. Long-range surveillance units include long-range surveillance companies at corps, and long-range surveillance detachments in mechanized, infantry, airborne, air assault, and light infantry divisions.

The primary audiences for this manual are corps and division commanders, corps and division G3s and G2s, military intelligence battalion commanders that have subordinate long-range surveillance units, long-range surveillance company and detachment commanders, platoon leaders, platoon sergeants, and team leaders. Secondary audiences include other infantry, armor, field artillery, and aviation leaders and staff officers, special operations forces leaders and staff officers, and service schools. LRSU leaders should use this manual in developing methodologies for training, planning, coordinating, and executing LRS missions.



Operations In A Low-Intensity Conflict
Field Manual 7-98
10 October 1992

This manual provides tactical-level guidance for planning, controlling, and coordinating combined arms operations in a low-intensity environment. It addresses tactics, techniques, and procedures for conducting brigade and battalion operations within each category of low-intensity conflict.

This manual is directed at brigade and battalion commanders and staff officers. It is for use by training developers as a source document for the combat critical tasks and missions of units operating in a low-intensity environment.



The Medical Company - Tactics, Techniques, And Procedures
Field Manual 8-10-1
29 December 1994

This manual provides the doctrine and the tactics, techniques, and procedures required for the operation of the medical company.

This manual is intended for use by the medical commander and his staff.



**Medical Platoon Leaders' Handbook - Tactics, Techniques, And Procedures
Field Manual 8-10-4
16 November 1990**

This manual provides tactics, techniques, and procedures for the employment of the medical platoon.

This manual is directed to medical platoon leaders of combat and combat support battalions and cavalry squadrons. However, the manual applies equally to other medical platoon members in accomplishment of their mission.



**Area Support Medical Battalion
Field Manual 8-10-24
13 October 1993
3 October 1995 - Change 1**

This manual provides information on the mission, organization, and operation of the area support medical battalion (ASMB). It outlines the functions and operations of each section within the ASMB and how the ASMB staff integrates its activities. It includes the health service support activities for the corps areas and within the COMMZ. This manual describes the many coordination links the ASMB must maintain with supported and supporting units.

This manual is intended to assist the commanders and staffs of the ASMBs operating in both the combat zone and the communications zone. It is also designed to be used by subordinate headquarters and support company and area support medical company commanders and their staff.



**Combat Stress Control In A Theater Of Operations - Tactics, Techniques,
And Procedures
Field Manual 8-51
29 September 1994**

This manual establishes medical doctrine and provides principles, tactics, techniques, and procedures for conducting combat stress control (CSC) support operations from forward areas to continental United States medical facilities.



Airdrop Support Operations in a Theater of Operations
Field Manual 10-500-1
19 June 1991

This manual provides basic principles of airdrop supply and resupply and the types and methods of airdrop. It describes airdrop support units and their responsibilities at each echelon, as well as airdrop request procedures, recovery and evacuation procedures, and planning considerations.

This manual provides doctrinal guidance to commanders and staff officers. It is used to plan, coordinate, and request the airdrop of supplies and equipment in a theater of operations.



**TALK-II - SINCGARS, Multiservice Communications Procedures For The
Single-channel Ground And Airborne Radio System
Field Manual 11-1
29 May 1996**

This manual describes the basic Single-channel Ground and Airborne Radio Systems (SINCGARSs) owned and operated by each of the services, explaining the basic characteristics and capabilities, operating modes, and frequency hopping net operation procedures for each radio and service and system. It also explains multiservice operational procedures for using SINCGARS radios in joint operations; sets forth responsibilities of key joint and service agencies and individuals, and establishes planning and execution procedures for SINCGARS frequency hopping radio operations in joint environments.

This manual applies to the Army, Navy, Air Force (Combat Air Forces) and Marine Corps.



**MSE Communications In The Corps/Division
Field Manual 11-30
27 February 1991**

This manual prescribes Mobile Subscriber Equipment (MSE) operational doctrine for MSE units at echelons corps and below. It provides a technical description of the network and emphasizes the command and control (C2) and logistical requirements of corps and division MSE signal units.

This manual is primarily intended to inform signal leaders and soldiers about internal MSE signal unit operations.



Signal Support: Echelons Corps And Below (ECB)
Field Manual 11-41
18 December 1991

This manual describes the signal support environment and signal support responsibilities for echelons corps and below.

This manual is intended for commanders and senior grade personnel at all units - echelons corps and below.



The Signal Leader's Guide
Field Manual 11-43
12 June 1995

This manual is a hip pocket-sized field reference guide for junior signal leaders (officers and noncommissioned officers). It is intended to help the signal leader to understand and to implement signal support under the Information Mission Area concept. It covers commonly needed information such as signal site reconnaissance, leading convoys, profiling line-of-sight links, and troubleshooting signal equipment. It also contains an overview of signal support doctrine and currently fielded communications systems.

This manual is targeted at junior signal officers and NCOs in tactical environments from battalion through echelons above corps.



**Light Cavalry Gunnery
Field Manual 17-12-8
28 October 1994**

This manual provides light cavalry gunnery principles, methods, and techniques. It addresses basic, intermediate, and advanced gunnery tables, system features, engagement techniques, preliminary gunnery training, gunnery skills tests, gunnery tables, and qualification standards.

This manual is a ready reference for unit commanders, vehicle commanders, and gunners. It should be used by vehicle commanders, platoon sergeants and unit staff to develop gunnery programs to attain and sustain combat readiness. It may also be used by combat support and combat service support units.



**Tank Platoon
Field Manual 17-15
3 April 1996**

This manual describes how the tank platoon fights. It focuses on the principles of platoon operations and the tactics, techniques, and procedures the platoon uses to exploit its combat power and minimize its vulnerabilities while conducting move, attack, and defend operations.

This manual is for tank platoon leaders and members of M60A3, M1, M1A1, M1A2, and M8-AGS crews. Where capabilities of the various systems differ significantly, this manual examines alternative considerations and techniques for their use.



Light Armor Operations
Field Manual 17-18
8 March 1994

This manual provides an overview of doctrinal principles for the employment of light armor forces. It describes tactics, techniques, and procedures for light armor platoons, companies, and battalions where they may differ from armored forces.

This manual will assist light armor battalion commanders, their staffs, company commanders, and platoon leaders in the conduct of combat operations with light infantry. It also provides light infantry leaders with a familiarization of the capabilities of light armor units and offers techniques for deploying them effectively. The tactics, techniques, and procedures discussed in this manual also apply to armored units when employed as part of a light infantry operation.



Cavalry Operations
Field Manual 17-95
24 December 1996

This manual describes doctrine, organization, capabilities, tactics, and techniques for the employment of cavalry units. This manual applies to the armored cavalry regiment and all division cavalry squadrons (armored, light, air). While the focus is on regiment and squadron, principles and fundamentals presented apply to all subordinate troops and companies and separate cavalry troops.

This manual is primarily designed to assist cavalry commanders, their staffs, and subordinate troop and company commanders in the conduct of combat operations. It also serves as a guide for corps, division, and brigade commanders, and their staffs.



**The Armored Cavalry Regiment And Squadron
Field Manual 17-95-10
22 September 1993**

Obsolete. Superseded by FM 17-95 Cavalry Operations 24 Dec 98.

This manual describes how to conduct operations with the armored cavalry regiment (ACR) and the regimental armored cavalry squadron (ACS). It does not address general doctrine, principles, or fundamentals except as necessary to focus the content of the manual.

This manual will assist regimental commanders (RCO) and squadron commanders (SCO), their staffs, and troop commanders in the conduct of combat operations.



**Scout Platoon
Field Manual 17-98
9 September 1994**

This manual describes how the scout platoon conducts reconnaissance and security missions. It focuses on the principles of platoon operations and the tactics, techniques, and procedures the platoon uses to acquire battlefield information for its commander and to provide security on the battlefield. The manual also covers the supporting tasks and operations that the platoon must perform or coordinate as part of reconnaissance and security missions.

This manual applies to scout platoons of the armor battalion, the mechanized infantry battalion, the heavy division, the heavy cavalry regiment, and the light cavalry regiment. It is adaptable for use by scout platoons of the light division reconnaissance squadron. It applies to scout platoons equipped with either the M3-series cavalry fighting vehicle or the high mobility multipurpose wheeled vehicle (HMMWV)



Military Police Support for the Airland Battle
Field Manual 19-1
23 May 1988

This manual is the military police keystone manual. It explains the organization and employment of military police in support of all echelons from forward deployed brigades to units at the rear edge of the communications zone. It emphasizes what military police leaders must know about military police capabilities to help friendly forces defeat the enemy. Additionally, it informs tactical commanders how military police can contribute toward success in battle.

This manual is designed for military police leaders, commanders and their staffs, and US Army service schools. It provides guidance for use by commanders and trainers at all echelons.



Camouflage
Field Manual 20-3
14 November 1990

This manual is intended to give the company-level leaders an understanding of camouflage principles. Camouflage not only encompasses individual efforts, but those efforts conducted by the entire unit, such as movement discipline, light and noise discipline, litter control, dispersal, cover and concealment, deception, and smoke operations.



Mine/Countermine Operations
Field Manual 20-32
30 September 1992
17 August 1994 - Change 1

This manual describes individual skills for emplacing and removing mines, team and squad tasks, platoon and company organization and planning, and battalion/task Force organization and coordination for successful obstacle reduction and breaching. It also contains techniques for row mining, minefield marking, reporting, and recording; breaching simple and complex obstacles; and emplacing a standard-pattern minefield.

This manual provides United States Armed Forces with technical guidance for conducting mine and countermine operations. It is to be used by all elements of the combined arms team, with special attention given to maneuver and engineer staff planning and coordination.



Field Hygiene And Sanitation
Field Manual 21-10
22 November 1988

This manual describes how to prevent disease and environmental injuries. It provides preventive medicine measures for the individual soldier as well as for the unit commander, unit leaders, and the unit field sanitation team.

This manual is directed to all soldiers, unit commanders, leaders, and field sanitation teams.



Unit Field Sanitation Team
Field Manual 21-10-1
11 October 1989

This manual describes a training program and provides information to prevent disease and environmental injuries. It provides preventive medicine measures for the individual soldier as well as for the unit commander, unit leaders, and the unit field sanitation team.

This manual provides a training program for personnel appointed as members of the field sanitation team of each company, battery, or similar unit. It contains a master instruction schedule, a text which may serve as reference material for the instructor, and lesson plans with supporting illustrations. The lesson plans should be modified in order to place more emphasis upon special problems for your particular geographical area of operations. The demonstrations and practical exercises, which are described with the subject matter to which they pertain, may be grouped into more comprehensive field exercises.

This manual is primarily directed at members of the unit field sanitation team but it contains information of benefit to all soldiers, unit commanders, and leaders.



First Aid For Soldiers

Field Manual 21-11

27 October 1988

28 August 1989 - Change 1

4 December 1991 - Change 2

This manual meets the emergency medical training needs of individual soldiers. This manual also addresses first aid measures for other life-threatening situations. It outlines both self-treatment (self-aid) and aid to other soldiers (buddy aid).

This manual is directed to all soldiers. The procedures discussed apply to all types of casualties and the measures described are for use by both male and female soldiers.



Physical Fitness Training
Field Manual 21-20
30 September 1992
1 October 1998 - Change 1

This manual provides guidelines for developing programs which will improve and maintain physical fitness levels for all Army personnel. It describes methods to produce cardiorespiratory fitness, muscular endurance and strength, and flexibility. It addresses body composition, nutrition, circuit training, exercises, obstacle courses, competitive fitness activities, environmental considerations, injuries, and the Army physical fitness test.

This manual is directed at leaders who plan and conduct physical fitness training. This manual can also be used as a source book by all soldiers.



Map Reading And Land Navigation
Field Manual 21-26
7 May 1993

This manual provides a standardized source document for Army wide reference on map reading and land navigation. This manual contains both doctrine and training guidance on map reading and 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.

This manual applies to every soldier in the Army regardless of service branch, MOS, or rank.



Topographic Symbols

Field Manual 21-31

19 June 1961

31 December 1968 - Change 1

This manual describes the topographic symbols and abbreviations authorized for use by all echelons in the interpretation of military maps, overlays, and related features and activities. It contains general information on the use of topographic symbols, gives the basic scales for topographic maps, defines topographic maps, and discusses map detail, map accuracy, and map colors. It gives examples and illustrations of topographic symbols arranged by categories, such as drainage features, relief features, and roads. It gives topographic abbreviations, their scope and application and discusses marginal information.



Visual Signals
Field Manual 21-60
30 September 1987

This manual describes visual communication techniques used as an alternate means for transmitting orders, information, or requests for aid and/or support. It addresses the use of arm-and-hand signals, flags, and pyrotechnics. It does not cover all visual signals used in the Army, only those that are commonly used.

The purpose of this manual is to standardize visual signals at all levels and to serve as a training reference.



**Combat Skills Of The Soldier
Field Manual 21-75
3 August 1984**

This is the soldier's field manual. It tells the soldier how to perform the combat skills needed to survive on the battlefield.

This manual describes basic skills that must be learned by soldiers in all military occupational specialties (MOS).



Combatives
Field Manual 21-150
30 September 1992

This field manual contains information and guidance pertaining to rifle-bayonet fighting and hand-to-hand combat. The hand-to-hand combat portion of this manual is divided into basic and advanced training. The techniques are applied as intuitive patterns of natural movement but are initially studied according to range. Therefore, the basic principles for fighting in each range are discussed. However, for ease of learning they are studied in reverse order as they would be encountered in a combat engagement.

This manual serves as a guide for instructors, trainers, and soldiers in the art of instinctive rifle-bayonet fighting.



Soldier Performance In Continuous Operations
Field Manual 22-9
12 December 1991

This manual describes what must be done to prepare for deployment, night operations, and continuous operations (CONOPS). It addresses soldier readiness and unit preparedness during training, deployment, combat, and post-combat operations. It presents methods to sustain soldier, team, and unit effectiveness during CONOPS.

This manual is designed to help unit leaders identify, counter, and minimize the degrading effects of fatigue and stress on unit operations.



Leaders' Manual For Combat Stress Control
Field Manual 22-51
29 September 1994

This manual identifies the leaders' responsibilities for controlling stress and recognizing the effects of stress on their personnel. It reviews Army operational doctrine for war and operations other than war. It identifies likely stressors and recommends actions for leaders to implement for the prevention and management of stress. The manual describes the positive and negative combat stress behavior associated with stress and provides leader actions to minimize battle fatigue risk factors. It provides information on how stressors and the stress process interact to improve or disrupt military performance. It identifies the supporting role of special staffs such as the chaplain and the Judge Advocate General. This manual also identifies the responsibilities of medical personnel for prevention, treatment, and management of battle fatigue and stress-related casualties.

This manual provides information for all leaders and staff on the control of combat stressors and the prevention of stress casualties.



Military Leadership
Field Manual 22-100
31 July 1990

This manual is the Army's basic manual on leadership. It has two purposes: to provide an overview of Army leadership doctrine, including the principles for applying leadership theory at all organizational levels to meet operational requirements; and to prescribe the leadership necessary to be effective in peace and in war.

While this manual applies to all Army leaders, its principal focus is on company grade officers, warrant officers, and noncommissioned officers, the junior leaders of soldiers at battalion-squadron level and below.



Soldier Team Development
Field Manual 22-102
2 March 1987

This manual explains procedures for the development of cohesive combat-ready teams consisting of well-trained and highly motivated soldiers. It describes the characteristics of a cohesive, combat-ready team using the BE-KNOW-DO leadership framework. It describes the stages (formation, development, sustainment) to reach the goal of a cohesive, combat-ready team and it discusses principles and actions for both peacetime and combat that the small-unit leader can use as he guides unit members through the stages.

The purpose of this field manual is to assist leaders at company level and below in developing soldier teams to meet the challenges of combat on the air-land battlefield.



Sniper Training
Field Manual 23-10
17 August 1994

This manual provides information needed to train and equip snipers and to aid them in their missions and operations. It is organized as a reference for snipers and leads the trainer through the material needed to conduct sniper training. Subjects include equipment, weapon capabilities, fundamentals of marksmanship and ballistics, field skills, mission planning, and skill sustainment.

This manual is intended for use by commanders, staffs, trainers, snipers, and soldiers at training posts, Army schools, and units.



90mm Recoilless Rifle, M67
Field Manual 23-11
6 July 1965
19 September 1968 - Change 2
28 April 1970 - Change 3

This manual provides information for training personnel to operate the 90mm recoilless rifle, M67. It includes mechanical training, fire control instruments, spare parts and equipment, maintenance, ammunition and fuzes, crew drill, marksmanship, technique of fire, and advice to instructors concerning the weapon.



M249 Light Machine Gun In The Automatic Rifle Role
Field Manual 23-14
26 January 1994

This manual provides technical information, training techniques, and guidance on the M249 light machine gun in the automatic rifle role, which was formerly known as the squad automatic weapon (SAW). Since this manual addresses the M249's use in the automatic rifle role as opposed to the light machine gun role, it is referred to in this manual as the M249 AR. The tactical positions shown in this manual may not be tactically correct, but they were drawn to enhance the reader's understanding of related subject material.



Antipersonnel Mine M18A1 And M18 (Claymore)

Field Manual 23-23

6 January 1966

17 December 1968 - Change 1

30 March 1973 - Change 2

This manual describes the M18 and M18A1 CLAYMORE anti-personnel mine, its functioning, and installation. It gives guidance for tactical employment and safety requirements. It provides a basis for conducting training utilizing the electric firing system issued with the mine.

This manual provides guidance for commanders and instructors presenting instruction and training on the functioning, installation, and employment of the antipersonnel mine, CLAYMORE.



**Dragon Medium Antitank/Assault Weapon System M47
Field Manual 23-24
3 April 1990**

This manual provides guidance for use and employment of the surface attack guided missile system. It describes characteristics, nomenclature, and functions. A training program is presented to develop, evaluate, and maintain proficiency of Dragon gunners. The tactical employment procedures described within this manual do not cover all situations.

This manual should be used by leaders and members of units equipped with the M47 Dragon, to train and test individual gunners or teams.



Light Antiarmor Weapons
Field Manual 23-25
17 August 1994

This manual provides technical information, training techniques, and combat techniques for the M72 LAW and the M136 AT4 light antiarmor weapons. The tactical positions shown in this manual were drawn to enhance the reader's understanding of related subject material and do not necessarily represent the best employment option for that material.

This manual is designed for leaders and designated soldiers who employ light antiarmor weapons.



MK 19, 40-mm Grenade Machine Gun, Mod 3
Field Manual 23-27
27 December 1988

This manual provides MK 19 gunnery principles, methods, techniques, standards and tests to measure individual, crew, and platoon gunnery skills. Included is a description of system features, engagement techniques, preliminary gunnery, gunnery skills test, gunnery tables, and qualification.



Grenades And Pyrotechnic Signals
Field Manual 23-30
27 December 1988

This manual provides information and guidance for hand grenade operation, use, and training. It describes the functions, characteristics, and capabilities of hand grenades and ground pyrotechnic signals. It provides a reference for the identification of various hand grenades and pyrotechnic signals. It also provides a guide for the proper handling and throwing of hand grenades, suggests methods and techniques for the tactical employment of hand grenades, and provides a guide for commanders conducting hand grenade training.

This manual is intended for two user groups: (1) training centers responsible for introducing and training soldiers to a basic knowledge level, and (2) field units - officers and noncommissioned officers responsible for sustaining basic knowledge level skills and advancing soldier skills in the employment of hand grenades on the battlefield.



40-mm Grenade Launcher, M203
Field Manual 23-31
20 September 1994

This manual provides technical information, combat techniques, and training techniques for the M203 grenade launcher. The tactical positions shown in this manual were drawn to enhance the reader's understanding of related subject material and are not tactically correct.

This manual is designed for leaders and designated grenadiers who employ the M203.



**Browning Machine Gun Caliber .50 HB, M2
Field Manual 23-65
19 June 1991**

This manual provides technical information, training techniques, and guidance for the Browning machine gun caliber .50 HB, M2. Unit leaders and the designated gunners will find this information invaluable in their efforts to successfully integrate this automatic weapon into their combat operation. All instruction can be given either on the range or in the vicinity (concurrent training stations).

This manual is designed for leaders and designated soldiers who employ the Browning machine gun caliber .50.



Mortar Gunnery
Field Manual 23-91
6 December 1991

This manual provides guidance for MOS 11C soldiers and their trainers on the employment of the 60-mm (M224 and M19) mortars, 81-mm (M252 and M29A1) mortars, 4.2-inch (M30) mortar, and 120-mm (M120) mortars. It discusses the practical applications of ballistics and a system combining the principals, techniques, and procedures essential to the delivery of timely and accurate mortar fire. This manual is divided into four parts: Part One discusses the fundamentals of mortar gunnery; Part Two summarizes the operational procedures of a fire direction center; Part Three describes the capabilities and use of the mortar ballistic computer; and Part Four describes the capabilities and use of the M16/M19 plotting board.



**Communications In A "Come-As-You-Are" War
Field Manual 24-12
17 July 1990**

This manual is a handbook for providing essential communications support in the face of communications equipment shortages. It includes information on field expedient solutions. It also addresses methods for achieving interoperability between different generations of tactical communications equipment.

This manual can be used by the planner, the supervisor, and the operator.



How To Conduct Training Exercises
Field Manual 25-4
10 September 1984

This manual provides doctrine, guidance, and examples for planning, conducting, and controlling training exercises. Beginning with fundamental training theory, this manual discusses how to determine training needs and how to plan for and conduct the appropriate exercises. It concludes with sample scenarios for exercises.

This manual includes tables for assessing exercise effects such as personnel losses and equipment damage and for computing emplacement or deployment times.

This manual is directed at commanders, staffs, and exercise planners primarily at battalion level and above of combat arms, combat support, and combat service support units. However, the concepts described are applicable at any level



The Law Of Land Warfare
Field Manual 27-10
18 July 1956
15 July 1976 - Change 1

This manual provides authoritative guidance to military personnel on the customary and treaty law applicable to the conduct of warfare on land and to relationships between belligerents and neutral States. Although certain of the legal principles set forth in the manual have application to warfare at sea and in the air as well as to hostilities on land, this manual concerns itself with the rules peculiar to naval and aerial warfare only to the extent that such rules have some direct bearing on the activities of land forces.



Basic Cold Weather Manual
Field Manual 31-70
12 April 1968
17 December 1968 - Change 1

This manual is designed to prepare the individual soldier and small unit commander to conduct military operations for extended periods of time under the most severe and varying cold weather climatic conditions. The doctrine and techniques in the manual are applicable in any area that has cold weather and snow with their accompanying operational problems. The manual emphasizes that cold, with its attendant problems affects military operations but does not prevent them.



Northern Operations
Field Manual 31-71
21 June 1971

This manual provides doctrinal guidance for operation and administration of combat, combat support, and combat service support units in the northern regions of the world. This manual is directed primarily toward operations below division level. Operations at division level and above will be essentially the same as those in other areas of the world.

Commanders and staff officers at all levels must understand and appreciate the effects of the northern environment on the operations of these forward units and carefully consider them when planning each operation.



Intelligence And Electronic Warfare Operations
Field Manual 34-1
27 September 1994

This manual is the Army's capstone manual for military intelligence (MI) doctrine. It describes the Intelligence Battlefield Operating System (BOS) and electronic warfare (EW) and how they support operations. It provides the guidance needed by MI personnel to support the commander with intelligence and electronic warfare (IEW) in warfighting and in operations other than war (OOTW). It addresses the Intelligence BOS and MI unit functions in a force projection army, across the full scope of military operations through all phases of crisis response. It also describes the Army MI role in combined, joint, and interagency operations.

This manual serves as a basis for IEW doctrine, training, and combat developments, and is the foundation for Army service school IEW instruction.



**Collection Management And Synchronization Planning
Field Manual 34-2
8 March 1994**

This manual describes the collection management process from joint task force through battalion level across the scope of military operations. It outlines collection management functions, the relationship with the decision making process and intelligence and electronic warfare synchronization, and the tools used in developing and executing collection management strategies.

This manual provides guidance for intelligence staff officers, warrant officers, noncommissioned officers, and analysts at all skill levels and echelons.



**Reconnaissance And Surveillance And Intelligence Support To
Counterreconnaissance - Tactics, Techniques, And Procedures For
Field Manual 34-2-1
19 June 1991**

This manual addresses tactics, techniques, and procedures for planning and conducting reconnaissance and surveillance operations and developing intelligence to support counterreconnaissance operations at maneuver brigade and below. It can also apply to armored cavalry regiment and separate brigades. It describes employment considerations for reconnaissance and surveillance assets and defines the roles of the collection manager and maneuver brigade and battalion S2's in planning reconnaissance and surveillance operations. It also describes their roles in identifying intelligence requirements to support counterreconnaissance operations.

This manual is intended for maneuver commanders and their staffs (especially S2s), intelligence staffs and collection managers, and other personnel involved in planning and conducting R&S and developing intelligence to support CR operations.



**The Combat Commander's Handbook On Intelligence
Field Manual 34-8
28 September 1992**

This manual addresses the operational tenets of the intelligence and electronic warfare (IEW) Battlefield Operating System (BOS). It describes the commander's role in the intelligence process. It discusses key organizations and functions of S2/G2 staffs and MI unit capabilities and provides detailed descriptions of specific intelligence collection assets. It describes how to focus priority intelligence requirements and how to train a unit's Intelligence BOS. It describes the IEW systems and capabilities of the IEW organizations at each echelon, and how they operate and interoperate.

This handbook is written primarily for maneuver commanders at echelons corps and below. However, it should also be useful to principal staff officers and combat support and combat service support commanders.



Intelligence Officer's Handbook
Field Manual 34-8-2
1 May 1998

This manual is a roles and missions manual for G2/S2 sections for executing the intelligence support function.. It also summarizes information that helps the S2 manage and coordinate the commander's critical information requirements.

This manual is written for officers serving as the G2 or S2 in combat, CS, and CSS units. It provides guidance for officers and NCOs assigned to G2/S2 sections.



**Joint Surveillance Target Attack Radar System (Joint STARS)
Field Manual 34-25-1
3 October 1995**

This manual provides doctrine and the tactics, techniques, and procedures (TTP) for the employment of the Joint Surveillance Target Attack Radar System (Joint STARS). It also describes the equipment, function, and placement on the battlefield. It describes the doctrine and TTP for the E-8 aircraft crew down to the individual ground station module (GSM) operator.

This manual is designed for use by commanders and their staffs; all MI commanders, their staffs, and trainers; and MI personnel at all echelons. It is also intended for commanders and staffs of joint and combined commands.



All-Source Analysis System And The Analysis And Control Element Field Manual 34-25-3

3 October 1995

This manual describes the equipment, operations, maintenance, and training of the All-Source Analysis System (ASAS). It provides the doctrinal framework for employing the ASAS within the G2 (S2) and analysis and control element (ACE) at theater Army, corps, division, brigade, separate brigade, and armored cavalry regiment (ACR) across the range of military operations.

The ASAS is the intelligence and electronic warfare (IEW) component of the Army Battle Command System (ABCS). It is an automated intelligence fusion system that helps the commander rapidly gather, record, analyze, and disseminate the often overwhelming volume of data available on the battlefield. The system supports the G2 (S2) and his ACE in directing IEW operations and producing intelligence that meets the commander's needs. The ASAS can automatically receive, store, and rapidly fuse battlefield information and intelligence into a variety of products and formats that aid the commander in decision making and operations. It provides connectivity between sensors and intelligence activities at multiple echelons. ASAS connectivity and processing power gives commanders and their staffs a common multi-dimensional view of the enemy situation and the battlefield.

This manual is designed for use by commanders and their staffs, and all military intelligence (MI) personnel in units equipped with or supported by the ASAS. This manual supports training, planning, and operations by commanders and staffs of joint, multinational, and service commands.



**Armored Cavalry Regiment And Separate Brigade Intelligence And
Electronic Warfare Operations
Field Manual 34-35
12 December 1990**

This manual provides intelligence and electronic warfare (IEW) doctrine and tactics for the armored cavalry regiment (ACR) and separate infantry and armor brigades. It provides doctrine for the organization and operations of IEW assets assigned to the ACR or separate brigade.

The target audience for this manual includes regimental and brigade commanders and staffs, military intelligence (MI) company commanders, and other assigned MI personnel and staffs.



**Special Operations Forces Intelligence And Electronic Warfare Operations
Field Manual 34-36
30 September 1991**

This manual focuses on the missions and functions of intelligence elements and organizations which provide intelligence and electronic warfare (IEW) support to Army Special Operations Forces (ARSOF) organizations. It provides doctrine for special operations forces (SOF) IEW operations, including military intelligence (MI) organizations, missions, functions, and capabilities from support operations team-A (SOT-A) and S2 section levels to SOF and the senior intelligence officer (SIO) at the joint level. It shows how these IEW assets meet ARSOF operational needs within the established IEW system. It also lays out some 'how to' techniques and procedures required to conduct IEW operations within the framework of the intelligence cycle.

This manual is written specifically for SOF S2s, military intelligence (MI) commanders, and other assigned MI personnel, and the elements which support them. It also includes SOF commanders and their staffs.



**Echelons Above Corps Intelligence And Electronic Warfare Operations
Field Manual 34-37
15 January 1991**

This manual applies IEW doctrinal principles to the Military Intelligence (MI) brigades (EAC) that support IEW in different theaters. It provides the doctrine for EAC IEW operations, including organizations, missions, functions, and capabilities of MI organizations at EAC. This manual is not designed nor intended to be a descriptive of tactics, techniques, and procedures. It describes how the general political and military environment of theaters of operation are formed. It also describes how the IEW structure forms to the operational level focus of the theaters and supports the Army's AirLand Battle Doctrine and IEW doctrinal principles and tasks. It describes the organization and functions of theater level IEW units and how they support the formulation of operational level intelligence. All intelligence disciplines have been included in the functional description. The remainder of the manual discusses the organization of the MI brigades (EAC).

This manual is for commanders, staff, and key personnel of all EAC organizations-- combat, combat support (CS), and combat service support (CSS). It lends support to the operational planning by all Army units within their functional missions. It should also be used by members of United States Army Training and Doctrine Command (TRADOC) service schools and other military organizations.



Battlefield Technical Intelligence
Field Manual 34-54
5 April 1990

This manual provides the doctrine, tactics, techniques, and procedures used to collect and exploit foreign technological developments. Battlefield Technical Intelligence (TECHINT) is part of the overall TECHINT system. The purpose of this publication is to emphasize the importance of and to describe battlefield TECHINT.

This field manual describes the Battlefield TECHINT process at echelons corps and below (ECB) and its links with echelons above corps (EAC), Military Intelligence (MI) organizations, other services, and the strategic-level intelligence agencies that support it.



Technical Intelligence

Field Manual 34-54

Unreleased "Final Approved Draft" of future manual

This manual provides general guidance and identifies the tactics, techniques, and procedures used in the collection, exploitation, and dissemination of technical intelligence (TECHINT). It describes the TECHINT process at all echelons and identifies responsibilities. It further describes the MI TECHINT organizations, other services, and the strategic level intelligence agencies supporting the process.

This manual applies to all Army personnel.



**Counterintelligence
Field Manual 34-60
3 October 1995**

This manual provides guidance, tactics, techniques, and procedures required to identify, neutralize, and exploit foreign intelligence attempts to conduct operations against the United States Army. CI operations include conducting investigations, offensive and defensive operations, security and vulnerability analyses, and intelligence collection in peace and at all levels of conflict to support command needs.

This manual is designed for use by commanders and their staffs; all military intelligence (MI) commanders, their staffs, and trainers; and MI personnel at all echelons. It is also intended for commanders and staffs of joint and combined commands, United States Naval and Marine Forces, units of the US Air Force, and the military forces of allied countries.



**Brigade And Battalion Intelligence And Electronic Warfare Operations
Field Manual 34-80
15 April 1986**

This manual describes the intelligence and electronic warfare (IEW) tasks for which the S2/G2 has responsibility and how the S2/G2 operations are integrated into the command and staff process at the battalion and brigade levels. It describes how various elements of the IEW system extending from battalion to corps are best used in support of brigade and battalion combat operations. Essential IEW functions, performed in peacetime, are also described in sufficient detail to ensure the combat readiness of IEW resources and the maneuver units they support.

Electronic warfare (EW) provides combat information and targeting data for both maneuver and fire support units, protects friendly command, control, and communications (C3) systems, and augments maneuver and fires to suppress, neutralize, and destroy enemy C3 facilities.

This manual is intended primarily for use by the intelligence staff officer (S2) and his section at the maneuver battalion and brigade levels. It is applicable to division- and corps-based units. It may also be used by commanders, other staff officers, and military intelligence personnel within the division to gain a better understanding of the IEW system and IEW tasks applicable to brigade and battalion operations.



**Intelligence Preparation of the Battlefield
Field Manual 34-130
8 July 1994**

This manual describes the fundamentals of intelligence preparation of the battlefield (IPB). It describes IPB, its use in directing the intelligence effort, and its role in driving the staff's planning for contingency or combat operations. It prescribes the procedures followed in performing IPB and illustrates the application of IPB in various situations. It does not contain all the data required to conduct IPB, such as specific information on threat doctrine or equipment capabilities. Rather, it is intended as a guide for applying the fundamentals of the IPB process to any situation.

This manual is intended to serve as a guide for the use of IPB by units of all types, at all echelons, across the entire spectrum of conflict, and during the conduct of any mission.



**Operations And Training, Chaparral
Field Manual 44-4
2 November 1984**

Obsolete. Rescinded by proponent 15 July 1998.

This field manual provides a brief description of the characteristics and capabilities of the Chaparral weapon system. It discusses the tactical use of the system, with emphasis on the techniques and procedures used by the Chaparral squad to attack and destroy hostile targets. Additionally, the manual includes crew training.



Small Unit Self-Defense Against Air Attack
Field Manual 44-8
30 December 1981

This manual explains the air threat to small units on the ground and places the threat into its proper perspective. It explains how ground commanders can protect their units from air attack through the use of passive and active air defense measures.

This field manual is addressed to commanders of units without air defense artillery.



**Platoon Combat Operations - Chaparral, Vulcan, And Stinger
Field Manual 44-16
29 May 1987**

Obsolete. Rescinded by proponent.

This manual describes how the ADA platoon (Chaparral, Vulcan, Stinger, and FAAR) conducts its operations. It provides principles, procedures, and techniques used by the platoon to exploit its ADA capabilities, to minimize its vulnerabilities, and to survive and win. It is a quick-reference, check-list, and information resource tool based on the principles, procedures, and techniques for ADA employment. It is general in nature and is not intended to be a step-by-step list for every detail required to operate an ADA Chaparral, Vulcan, or MANPAD platoon, section, or squad.

This field manual is for ADA platoon, squad, and section leaders of Chaparral, Vulcan, and MANPAD units.



**Air Defense Artillery Employment Stinger
Field Manual 44-18
30 September 1981
17 May 1985 - Change 1**

This manual describes how the Stinger platoon and section fight. It discusses employment of Stinger teams which support the maneuver brigade, battalion task force, field artillery battalion, and covering force. Threat information contained in this publication is, in some instances, imprecise and incomplete.

This manual is oriented primarily toward the officers and noncommissioned officers— the lieutenants and the sergeants— who will direct and supervise the employment of Stinger and toward those combat arms and combat support commanders who will be supported by Stinger.



Stinger Team Operations
Field Manual 44-18-1
31 December 1984

This manual describes the Stinger system, tells how to use the weapon to shoot down aircraft, and describes how the team operates in combat. It focuses on the techniques and procedures used by the Stinger team to engage and destroy hostile targets. It discusses the means and methods of training soldiers to operate the system.

This manual provides guidance for the Stinger team in support of air defense operations. It is also written to support the training of individuals to function as members of a Stinger team.



**Bradley Stinger Fighting Vehicle Platoon and Squad Operations
Field Manual 44-43
3 October 1995**

This manual describes how the Bradley Stinger Fighting Vehicle (BSFV) platoon and squad operate. It details tactics, techniques, and procedures used by the BSFV platoon to exploit its capabilities, provide protection for the supported force, and survive on the battlefield. It describes the integration of the BSFV platoon with its supported unit, normally a heavy combined arms task force, in conducting combined arms operations on tomorrow's battlefield. Threat information contained in the publication is general in nature.

This manual is required reading for commanders, platoon leaders, platoon sergeants, and squad leaders who will direct and supervise the employment of BSFV platoons and squads.



Avenger Platoon, Section, And Squad Operations
Field Manual 44-44
3 October 1995

This manual is the doctrinal forward area air defense (FAAD) manual for the Avenger platoon, section, and squad. It explains how Avenger provides air defense for the force and survives on the battlefield. It details tactics, techniques, and procedures used by the Avenger platoon when engaged in offensive and defensive operations. Threat information contained in the publication is general in nature.

This manual is required reading for commanders, platoon leaders, platoon sergeants, and section and squad leaders who will direct and supervise the employment of Avenger weapon systems.



**FAAD/SHORAD Battalion Operations, Heavy Divisions
Field Manual 44-63
31 March 1992**

**Obsolete. Superseded by FM 44-64 SHORAD Battalion And Battery
Operations 5 June 97.**

This manual describes air defense artillery (ADA) in support of the heavy divisions. It describes how current and interim FAAD and SHORAD ADA battalions are organized and how they fight in support of maneuver operations. It provides current and interim tactics, techniques, procedures, and doctrine for integrating FAAD systems into the combined arms team and for exploiting ADA's improved capabilities.

This manual is oriented primarily towards FAAD and SHORAD battalion commanders, staff officers, and combined arms commanders who will be supported by ADA.



**Hawk Platoon Operations - Tactics, Techniques, And Procedures For
Field Manual 44-73
23 December 1992**

Obsolete. Rescinded by the proponent 25 Mar 98.

This manual describes the mission of air defense artillery and the role of Hawk and the Hawk platoon in carrying out the mission. It provides principles, procedures, and techniques used by the platoon. It describes the ground and air threat facing a corps or echelon above corps Hawk battery in a nonmature, or contingency theater. The mature theater threat is also addressed. It discusses the elements and procedures used to plan and design a defense to accomplish the ADA mission. It also includes the different lateral liaisons that the Hawk unit must consider.

This manual is written for Hawk platoon personnel and, in particular, for the platoon leader and platoon sergeant



Patriot Battalion And Battery Operations
Field Manual 44-85
21 February 1997

This manual provides doctrinal how-to-fight guidance for the Patriot battalion and battery in support of force-projection operations. It addresses Patriot's role in the joint battle, the threat, air defense artillery (ADA) planning, force-projection operations, offensive and defensive operations, and combat service support. Appendices cover checklists, system and organizational descriptions, aerial intelligence preparation of the battlefield (IPB), safety, battle books, transport, and communications.

This manual is adaptable to any theater of operations. However, it focuses on contingency operations and Patriot's role in the projection of land and air combat power. It is intended primarily for battalion commanders, staff officers, battery commanders, platoon leaders, tactical directors, and tactical control officers.



Hawk Battalion Operations
Field Manual 44-90
8 September 1987

This manual provides information on the organization and functioning of a Hawk air defense artillery battalion. It presents doctrinal material on the employment of the Hawk air defense system and on the design of air defenses. It explains how the Hawk battalion meets the threat and how it performs the mission of Army air defense artillery at very low to medium altitudes.

This manual is oriented primarily toward Hawk commanders, staff officers, tactical directors, and tactical control officers.



US Army Air Defense Operations
Field Manual 44-100
15 June 1995

This manual is the capstone doctrinal manual for the air defense battlefield operating system. It explains the Army's contributions to joint and multinational counterair and theater missile defense operations. It also addresses the full range of offensive and defensive actions to counter the air threat. It provides the doctrinal basis for integrating the air defense battlefield operating system into the planning and conduct of strategic, operational, and tactical levels of operations.

This manual provides the doctrinal guidance for commanders, trainers, and leaders at all levels and is the basis for Army service school curricula development. This manual also provides the doctrinal basis for the implementation of air defense measures in all Army units.



Support Battalions and Squadrons, Separate Brigades And Armored Cavalry Regiment

Field Manual 63-1

30 September 1993

20 September 1994 - Change 1

This manual provides information on the structure and operations of the support battalion of the separate brigades (heavy separate brigades and separate infantry brigades/theater defense brigades) and the armored cavalry regiment support squadron. It outlines the functions and operations of each section within the support battalion and how the support battalion commander and staff integrate their activities. This includes both the logistics and health service support mission and tactical responsibilities. This manual describes the coordination links that the support battalion maintains with supported and supporting units. Major functional and doctrinal differences between the separate brigades logistics and HSS operations are also discussed.

This manual is directed toward the commanders and staffs of the support battalions/squadrons organized and operating under L-edition TOEs. It is also designed to be used by commanders of the support battalion/squadrons' subordinate companies/troops.



Division Support Command, Armored, Infantry, And Mechanized Infantry Divisions

Field Manual 63-2

20 May 1991

This manual provides information on the structure and operations of the division support command (DISCOM). It describes the support available through the division's own organizational resources and that support obtained from resources outside the division. It describes the functional procedures through which this support is provided to users. It discusses the DISCOM (MSB and FSB structure) associated with the armored and mechanized divisions. It also discusses differences in organization and support requirements for the heavy/light and infantry divisions.

This manual is primarily directed toward the commander and staff of the DISCOM in the armored, mechanized infantry, infantry, and heavy/light divisions.



Division Support Command Light Infantry, Airborne, And Air Assault Divisions

Field Manual 63-2-1

16 November 1992

20 September 1994 - Change 1

This manual provides information on the structure and operations of the division support command (DISCOM) in the light infantry, airborne, and air assault divisions. It describes how DISCOM personnel integrate their activities to accomplish their logistics and health service missions. It addresses mobile subscriber equipment, maneuver oriented ammunition distribution system, preconfigured unit loads, and the Army field feeding system. It also discusses new logistics and health service software, such as SAAS-DAO and TAMMIS-D.

This manual is directed toward the division staff, the commander and staff of the DISCOM, and the commanders of the DISCOM's subordinate units.



**Logistics Support Element - Tactics, Techniques, And Procedures
Field Manual 63-11
8 October 1996**

This manual describes how the Logistics Support Element (LSE) is organized and functions to serve as a single logistics command and control element to centrally manage strategic logistics personnel, call forward elements as required, and integrate these elements into a theater. It describes how the LSE spans the bridge between the strategic and tactical levels, linking the industrial bases with operational logistics units, and extending through the Logistics Assistance Program into tactical logistics.

This manual is designed to assist Army service component commanders, theater support command commanders, Army force senior logisticians, LSE commanders, and other Army logisticians and their staffs in translating requirements and needs into logistics support in joint, multinational, and interagency environments. Also, this manual is a handbook for personnel that are or will be assigned to a deployed LSE.



**Forward Support Battalion
Field Manual 63-20
26 February 1990**

This manual provides information on the structure and operations the forward support battalion (FSB) as it provides logistical support to the division. It outlines the functions and operations of each section within the FSB and how the FSB commander and staff integrate their activities. This includes both the logistics and medical mission and the tactical responsibilities. The manual describes the many coordination links the FSB must maintain with supported and supporting units.

This manual is directed toward the commander and staff of the FSBs of divisions organized and operating under L-edition TOES as modified by the Force Design Initiatives for an Army of Excellence Study. It is also designed to be used by commanders of the FSB's subordinate companies.



**Tank And Mechanized Infantry Company Team
Field Manual 71-1
26 January 1998**

This manual describes how the company team fights. It focuses on the principles of company team operations and the tactics, techniques, and procedures the company team uses to exploit its combat power and minimize its limitations and vulnerabilities. Where capabilities of the various company team systems differ significantly, the manual examines alternative considerations and techniques for their employment.

This manual is for leaders at all levels of the company team.



**The Tank And Mechanized Infantry Battalion Task Force
Field Manual 71-2
27 September 1988
17 August 1994 - Change 1**

This manual is the doctrinal foundation for and governs the development of equipment, training, and structure as pertains to tank and mechanized infantry battalions. It describes the doctrinal and tactical employment of the tank and mechanized infantry battalion task force. It emphasizes synchronization of the battalion task force fight through the integrated planning and coordinated employment of all combat support and combat service support assets. Examples are provided to illuminate principles, not to serve as prescriptive responses to tactical situations.

This manual is written for the battalion task force commander, his staff, company commanders, organic specialty platoon leaders, and supporting units.



**The Armored And Mechanized Infantry Brigade
Field Manual 71-3
8 January 1996**

This manual provides tactics, techniques, and procedures for the tactical employment of the armored and mechanized infantry brigade and tactical standing operating procedures.

This manual is intended to assist brigade commanders, their staffs, and subordinate commanders in planning and conducting brigade operations.



Division Operations
Field Manual 71-100
28 August 1996

This manual is the capstone manual for Army division operations. It addresses capabilities, limitations, and employment of US Army divisions. It provides principles for planning and conducting division operations that apply to all types of Army divisions. It does not address specific tactics, techniques, or procedures except when necessary to clarify or emphasize principles.

This manual will assist division commanders, their staffs, and subordinate commanders in planning and conducting division operations. It will guide many organizations regarding the capabilities, limitations, and employment of US Army divisions. It also will guide the development of subordinate unit doctrine.



Infantry Division Operations - Tactics, Techniques, and Procedures
Field Manual 71-100-2
31 August 1993

This manual describes the employment of light, airborne, and air assault infantry divisions in combat. It provides tactics and techniques for the conduct of combat operations and the integration and coordination of combat, combat support, and combat service support functions. The tactics and techniques in this manual are illustrative in nature and a guide only. Readers should not assume these methods are the only way of conducting operations.

This manual has been written for the division commander and his staff, major subordinate units of the division and corps, and students at service and staff colleges. Other service and allied commanders and staffs may also find it useful in understanding how the infantry division plans and executes operations.



Air Assault Division Operations - Tactics, Techniques, And Procedures
Field Manual 71-100-3
29 October 1996

This manual describes the employment of the air assault division in combat. It provides tactics and techniques for the conduct of combat operations and the integration and coordination of combat, combat support, and combat service support functions.

The air assault division is unique. It provides the warfighting commanders-in-chiefs an operational ground force capable of attacking directly into the enemy's vulnerable rear areas. It fights according to the proven tenets of Army operations. Air assault division organization and its tactics significantly differ from its armored and light infantry counterparts.



**Tactics And Techniques For Combined Arms Heavy Forces: Armored
Brigade, Battalion Task Force, And Company Team
Field Manual 71-123
30 September 1992**

This manual provides tactics and techniques for heavy, combined-arms forces at brigade, battalion, and company levels. Discussion of each organizational level is in terms of its corresponding threat, for example, an enemy MRP or tank platoon defense may serve as the point of departure for discussion of the company's role in a battalion deliberate attack.

This manual will be a primary reference for combined arms soldiers throughout their careers. It may, for example, serve as a point of departure for officer professional development classes one day and as a basis for unit training the next.



**Battlefield Deception
Field Manual 90-2
3 October 1988**

Obsolete. Rescinded by DA Pam 25-30 in October 1997.

This manual sets forth the principles associated with battlefield deception operations and explains how to plan and execute such operations at the operational and tactical levels of war.

This manual is designed for use by commanders and staffs who plan, direct, and conduct combat operations at echelons above corps (EAC) and echelons corps and below (ECB).



Desert Operations
Field Manual 90-3
24 August 1993

This manual is the Army's and Marine Corps' guide for desert operations. It describes the desert environment and how it affects personnel and equipment. It describes how the desert environment affects tactical operations, offensive operations, defensive operations. It describes preparations for deployment and training for operations in a desert environment.

This manual is a key reference for commanders and staffs regarding how the desert affects personnel, equipment, and operations. It will assist them in planning and conducting combat operations in desert environments.



Air Assault Operations
Field Manual 90-4
16 March 1987

This manual describes how infantry and aviation units plan and conduct air assault operations. It emphasizes the coordination necessary between these organizations concerning the planning sequence and tactical employment of both elements.

This manual is written primarily for aviation and infantry units and is applicable to combat support and service support units with a need to plan for and use Army aviation support.



Jungle Operations
Field Manual 90-5
16 August 1982

This manual is a guide for tactical operations in jungle. It introduces jungle environments - where they are found and what they are like. It provides guidance on fighting and living in the jungle. It lists the factors to be considered when preparing for jungle operations and presents training tips for conducting jungle training. It describes the main features of guerrilla and conventional forces as they are found in the jungle, and briefly outlines the types of potential threat forces in various jungle regions. It describes techniques which are most effective in supporting infantry engaged in jungle operations.



Combined Arms Obstacle Integration
Field Manual 90-7
29 September 1994

This manual provides doctrine, tactics, techniques and procedures for obstacle operations at echelons from corps to company team. It provides key obstacle terms, obstacle integration theory, obstacle planning, and considerations for specific types of obstacles. Three appendixes provide additional tools that facilitate successful planning and execution, information on individual obstacles, and critical activities in reporting, recording, and tracking and obstacle resourcing and supply.

This manual is intended for the combined arms commander and staff.



An Infantryman's Guide To Combat In Built-Up Areas
Field Manual 90-10-1
12 May 1993

This manual provides the infantryman with guidelines and techniques for fighting against a uniformed enemy in built-up areas who may or may not be separated from the civilian population. Some techniques for dealing with insurgents, guerrillas, and terrorists are included. This manual does not address any techniques for missions that require the restoration of order to urban areas.



River-Crossing Operations
Field Manual 90-13
26 January 1998

This manual describes how divisions and brigades conduct river crossings. It shows the relationship to corps operations, where appropriate, and includes details for lower echelons to support the brigades. It provides doctrine, tactics, techniques, and procedures to accomplish this special operation.



Combined Arms Breaching Operations
Field Manual 90-13-1
28 February 1991
7 May 1993 - Change 1

This manual outlines Army doctrine for combined arms breaching operations. Fighting as a combined arms team is imperative to breaching success and is the centerpiece of the manual. The manual begins with a discussion of the breaching challenges facing the commander on a modern battlefield where maintaining freedom to maneuver is mission-essential. The theory behind breaching operations is then outlined to equip the commander with the fundamentals needed to integrate a breach into his tactical planning, preparation, and execution. Subsequent chapters discuss in detail the various types of breaching operations available to the commander: in-stride, deliberate, assault, and covert. The focus of these chapters is what drives the commander to decide what type of breach to plan and prepare for and to execute based on mission, enemy, terrain, troops, and time available (METT-T). A chapter is devoted to integrating breach training into unit training plans. This manual provides supplemental information on Soviet obstacle warfare, intelligence preparation of the battlefield (IPB), and obstacle reduction techniques.

This manual provides combined arms commanders, from company to brigade, and their staffs with the doctrine, tactics, and techniques needed to successfully overcome obstacles.

It provides the commander with breaching fundamentals and information for planning, preparing, and executing the in-stride, deliberate, assault, and covert breaches. This manual gives the coordinating and special staff officer a basis for synchronizing all combat multipliers during a breach. This manual serves as a source of information for non-Army planners who may be involved in operating with ground forces conducting offensive operations.



**J-Fire Multi-Service Procedures For Joint Application Of Firepower
Field Manual 90-20
11 February 1994**

This manual provides a pocket-sized, quick reference guide for requesting fire support. It contains calls for fire, a format for joint air strike requests, a format for briefing pilots who provide close air support and close-in fire support, structures of communication nets, and data on weapons.

This manual is intended primarily for use by members of battalion level combat units. It applies to the tactical operating forces of the Army, Marine Corps, Navy, and Air Force. It is a US unilateral-only document, but it includes NATO formats where appropriate.



Army And Marine Corps Integration In Joint Operations
Field Manual 90-31
29 May 1996

This publication provides a single-source reference detailing multiservice tactics, techniques, and procedures for planning and executing joint operations between Army and Marine Corps forces. It describes the capabilities and limitations of selected Army and Marine Corps units and provides methodologies in the form of tactics, techniques, and procedures (TTP) for the integrated employment of those units in a joint warfighting environment.

This publication applies to the operating forces of the Army and Marine Corps. It provides multiservice information for integration of Army and Marine Corps forces. It has application for planning and warfighting personnel at all echelons.



**NLW, Multiservice Procedures for the Tactical Employment of Nonlethal
Weapons
Field Manual 90-40
6 October 1998**

This manual describes multiservice tactics, techniques, and procedures (MTTP) for consideration and use during the tactical employment of nonlethal weapons (NLW) in support of warfighting personnel conducting training and tactical operations. It provides an overview of NLW, provides NLW system description/interoperability, describes the capabilities of NLW, discusses training with the NLW capability set, discusses the tactical employment of NLW, and discusses lessons learned from previous NLW use.

This manual provides commanders and their staffs unclassified guidance for NLW employment and planning. Commanders and staffs can use this publication to aid in the tactical employment of NLW during exercises and contingencies.



**The Army
Field Manual 100-1
14 June 1994**

This manual is the Army's cornerstone document. It defines the broad and enduring purposes for which the Army was established and the qualities, values, and traditions that guide the Army in protecting and serving the Nation. It expresses the Army's fundamental purpose, roles, responsibilities, and functions, as established by the Constitution, Congress, and the Department of Defense.

This manual is a primer on the history, legal origins, and justification of the Army. It describes how the Army works to “provide for the common defense” and “promote the general welfare.” It explains the Army’s strategic role in national security. It describes how Army forces accomplish their assigned missions as a component of unified or joint commands, integrating the capabilities of the other services to achieve national military objectives.

This manual provides a foundation for the Army’s basic operational doctrine. All other Army doctrine flows from the principles and precepts contained in this manual.



Operations
Field Manual 100-5
14 June 1993

This manual provides the US Army's keystone warfighting doctrine. It describes how to think about the conduct of campaigns, major operations, battles, engagements, and operations other than war. It addresses fundamentals of a force-projection army with forward-deployed forces. It links Army roles and missions to the National Military Strategy, of which power projection is a fundamental principle. How the Army thinks about accomplishing its mission is the subject of this manual.

The US Army is doctrine-based - doctrinally capable of handling large campaigns as well as combat in a variety of scenarios. FM 100-5 is the Army's keystone warfighting doctrine.

This manual is a guide for Army commanders and furnishes the authoritative foundation for subordinate doctrine, force design, materiel acquisition, professional education, and individual and unit training.



Decisive Force: The Army In Theater Operations
Field Manual 100-7
31 May 1995

This manual guides US Army forces (ARFOR) functioning at the operational level of war in concert with joint, multinational, and/or interagency organizations. This is the Army's manual on operational art focused at the operational level of war: the link among theater strategy, campaign plans, and tactics and the bridge between theaterwide campaigns and localized battles and engagements. It outlines principles and functions for planning and conducting subordinate campaigns and major operations that require the integration of Army combat capabilities and support activities within a joint, multinational, or interagency framework. The manual describes Army operations, including force projection, throughout the full range of military operations--war and military operations other than war (MOOTW).

This manual is designed to assist the Army service component commander (ASCC), ARFOR commanders, and other senior army commanders and their staffs to develop a framework necessary to translate strategic guidance into operational and tactical execution in joint, multinational, and interagency environments.



**Combat Service Support
Field Manual 100-10
3 October 1995**

This manual is the Army's capstone manual for combat service support of all Army forces, sister services, and multinational forces. It provides the authoritative doctrine by which the Army combat service support (CSS) system as part of the national-theater system supports the conduct of operations at all echelons and across the full range of military operations. It explains how Army CSS elements support combat, combat support, and other CSS forces in conducting combatant strategies, campaigns, major operations, battles, and engagements in war, and military operations other than war activities in conflict and peacetime. Although the manual addresses CSS at the strategic level in support of the combatant commander, it focuses on operational and tactical CSS as executed by the Army-in-the-field.

The intended audience of this manual is: combat and combat support commanders, to provide a more universal understanding of how CSS is organized and provided; CSS commanders and staffs, to institutionalize the integration of CSS into the total Army mission; and students, to provide a broad knowledge of the CSS structure and how it works.



**Corps Operations
Field Manual 100-15
29 October 1996**

This manual is a guide for employing US Army corps in war and operations other than war (OOTW). It addresses corps combat operations and the integration and coordination of combat, combat support (CS), and combat service support (CSS) as well as other joint and multinational functions applicable to any theater. It discusses concepts and principles unique to the corps. However, except when necessary, it does not address specific tactics, techniques, or procedures (TTP).

The primary users of this manual are the corps commander and his staff, senior service and staff college students, major subordinate corps units, and echelons above corps (EAC). Sister service commanders and staffs will also find this manual useful in planning and conducting joint operations.



**Army Operational Support
Field Manual 100-16
31 May 1995**

This manual provides operational-level combat service support doctrine for Army service component commanders (ASCC), Army forces commanders, and other senior leaders and their staffs employed in joint, combined, or interagency circumstances across the scope of military operations.



Space Support To Army Operations
Field Manual 100-18
20 July 1995

This manual establishes doctrine for the Army's use of space, enumerates current space system capabilities, and provides guidelines for the use and application of space capabilities to support Army operations. It emphasizes the enhancements that space assets provide in meeting numerous requirements of land forces such as surveillance, navigation, mapping, targeting, communications, early warning, terrain and weather.

This manual is relevant from the highest levels of command down to the soldier in the foxhole. It provides a foundation for leader development, training, and space-related modernization initiatives that support the force projection Army's missions and provide soldiers with a decisive advantage across the full range of military operations.



Military Operations In Low Intensity Conflict
Field Manual 100-20
5 December 1990

This manual establishes Army and Air Force guidance for planning, coordinating, and executing operations in low intensity conflict (LIC). It provides direction to Army and Air Force commanders and staffs charged with duties related to these operations.

This manual applies to all Army and Air Force units participating in joint and combined operations in LIC. Foreign governments receiving security assistance from the US may also use it with appropriate modification.



**Peace Operations
Field Manual 100-23
30 December 1994**

This manual provides guidance for the full range of peace operations, to include support to diplomacy (peacemaking, peace building, and preventive diplomacy), peacekeeping (PK), and peace enforcement (PE). It addresses the environment of peace operations, related concepts, principles, and fundamentals, to include planning, operational considerations, training, and supporting functions. It also provides information concerning the UN and other organizations that may participate in peace operations.

This manual is for commanders and staffs charged with the responsibility for peace operations to assist them in planning and conducting operations. It is also useful to nonmilitary agencies and foreign military units conducting related operations.



**Armor And Mechanized Based Opposing Force: Organization Guide
Field Manual 100-60
16 July 1997**

This manual provides organizational building blocks for an armor- and mechanized-based OPFOR. It depicts the forces of a developed country that devotes extensive resources to maintaining a military capability that rivals that of the United States. With this material, users can build an order of battle appropriate to their training requirements. For each type of unit, the manual outlines basic unit structure and possibly a number of variations. For most units, the manual also lists principal items of equipment. Appendixes provide guidance and examples for users who wish to substitute other items of equipment for the baseline systems listed for a unit.

This manual is one of a series that describes a capabilities-based Opposing Force (OPFOR) for training US Army commanders, staffs, and units. These manuals outline an OPFOR that can cover the entire spectrum of military capabilities against which the Army must train to ensure success in any future conflict.

Applications for this series of manuals include field training, training simulations, and classroom instruction throughout the Army. All Army training venues should use an OPFOR based on these manuals, except when mission rehearsal or contingency training requires maximum fidelity to a specific country-based threat.



**Armor And Mechanized Based Opposing Force Operational Art
Field Manual 100-61
26 January 1998**

This manual provides the trainer with a military doctrine and operational art for the armor- and mechanized-based OPFOR. The operational art describes how army groups, armies, and corps conduct operations. The manual also addresses strategic and theater operations, to provide a larger context for the actions of the organizations listed above. Armor- and mechanized-based OPFOR tactics for divisions and below are described in FM 100-62.

This manual is one of a series that describes a capabilities-based Opposing Force (OPFOR) for training US Army commanders, staffs, and units. Together, these manuals outline an OPFOR that can cover the entire spectrum of military capabilities against which the Army must train to ensure success in any future conflict.

Applications for this series of manuals include field training, training simulations, and classroom instruction throughout the Army. All Army training venues should use an OPFOR based on these manuals, except when mission rehearsal or contingency training requires maximum fidelity to a specific country-based threat.



Infantry Based Opposing Force Organization Guide
Field Manual 100-63
18 April 1996

This manual provides organizational building blocks for an infantry-based OPFOR. The infantry-based OPFOR represents the armed forces of a developing country with limited resources. With this material, users can build an order of battle appropriate to their training requirements. For each type of unit, the manual outlines basic unit structure and possibly a number of variations. For most units, the manual also lists principal items of equipment. Appendixes provide guidance and examples for users who wish to substitute other items of equipment for the baseline systems listed for a unit.

This manual is one of a series that describes a capabilities-based Opposing Force (OPFOR) for training US Army commanders, staffs, and units. Together, these manuals outline an OPFOR that can cover the entire spectrum of military capabilities against which the Army must train to ensure success in any future conflict.

Applications for this series of manuals include field training, training simulations, and classroom instruction throughout the Army. All Army training venues should use an OPFOR based on these manuals, except when mission rehearsal or contingency training requires maximum fidelity to a specific country-based threat.



Staff Organization And Operations
Field Manual 101-5
31 May 1997

This manual is the Army's capstone manual for staff organization and operations of major tactical and major tactical support commands at corps level and below. It describes basic doctrine of the roles, relationships, organization, and responsibilities of staffs in the United States Army. It does not cover staffs of units at echelons above corps and joint level. It does not detail tactical missions or the use of forces during operations. The examples provided are guides only, showing general application procedures. This manual is the authoritative foundation for doctrine; procedures and techniques; force design; materiel acquisition; professional education; individual, unit, and service school training; and research and development for staffs and their functions.

This manual is intended for use by staff officers in carrying out their duties and responsibilities as they assist the commander in accomplishing the mission.



Operational Terms And Graphics
Field Manual 101-5-1
30 September 1997

This manual sets forth procedures for the United States Army and the United States Marine Corps in the use of land-based warfighting symbology. It is a dictionary of operational terms and military graphics. It describes symbols for use in the force domain (maneuver command and control) but does not supersede the military standards that describe symbols for use in the engagement domain ("radar" tracking , evaluation, engagement, or engagement system directing).

This manual is designed for commanders and staffs from company through corps to communicate instructions to subordinate units. This doctrine applies to all Army and Marine Corps commanders and staffs. For overseas theaters, the procedures govern US unilateral operations only. For combined operations, applicable multinational procedures apply. This manual does conform to the appropriate NATO requirements.



Logistics
Field Manual 700-80
15 August 1985
30 March 1990 - Change 1

This manual provides doctrine for Army logistics management. It develops an understanding of the concept of logistics, shows the functional components of the Army Logistics System, highlights the roles of principles and performance analysis in the design of the Army Logistics System, show the activities of the logistics system in relation to various aspects of the external and internal environments of the Army, and emphasizes the interdependence of the subsystems of the Army Logistics System. Details of specific functions, procedural, and organizational aspects of logistics are not discussed.

This manual is intended for use as a reference by commanders, staff officers, and logistics operating personnel, including those responsible for training, operations, materiel readiness, and materiel development; national inventory control points (NICPs); service item control centers (SICCs), agencies and activities; and higher levels. This manual may be used for the development of supporting doctrinal or training literature for use below major command level and as a text in advanced courses of instruction in the Army school system.



Planning Logistics Support For Military Operations
Field Manual 701-58
27 May 1987

This manual describes Army doctrine for planning logistics support for emergency military operations at the major command and higher echelons of the Army logistics system. It describes logistics planning to support emergency plans such as contingency, war emergency, force mobilization, continuity of operations, civil defense, disaster assistance, civil disturbance, and others. It discusses Department of Defense strategic planning systems, responsibilities of the Joint Chiefs of Staff, the Joint Operations Planning System, Department of the Army Staff, MACOMs, the Defense Logistics Agency, General Services Administration, the Transportation Operating Agencies, Military Traffic Management Command, Military Airlift Command, Military Sealift Command, and other activities. Where needed, this includes the responsibilities of installation and unit commanders.

This manual is intended for use by commanders and staff officers at major echelons and planning agencies of Army component commands of unified commands, and of major Army commands (MACOMs) which provide logistics support to these Army component commands. It is to be used as a reference text for senior-level Army service schools and as a training text for logistics planning at major Army logistics commands.



**How To Prepare A Target Folder
Training Circular 5-6-14
18 June 1980**

Obsolete. Superseded by FM 5-250 Explosives And Demolitions 30 July 1998

This manual explains how to collect/develop necessary data and prepare an engineer target folder.

Each engineer squad must be able to collect and develop target data and prepare a target folder, given a target or target area in a combat zone, day or night under all weather conditions. The target folder must be prepared in accordance with the STANAG 2017 format and be complete, accurate, and easily understood such that an engineer squad unfamiliar with the target can complete the demolition mission.



**Infantry Live-Fire Training
Training Circular 7-9
30 September 1993**

This manual provides guidance and examples to help the commander set up his own live fire exercises (LFXs). It addresses both fire and maneuver with emphasis on LFXs for dismounted infantry. It complements existing training manuals and assists commanders in planning, executing, and evaluating LFXs. It focuses on training the trainer to conduct measurable and realistic LFXs at buddy-team through platoon level. It also provides the company, battalion, and brigade with a document that outlines the resources available and their costs.

This manual is for use by all leaders of infantry unit.



**Starlight Scope, Small, Hand-Held Or Individual Weapons Mounted, Model
No. 6060
Training Circular 23-11
17 November 1966**

This manual provides guidance for the conduct of training with the Starlight Scope, Small Hand-Held or Individual Weapons Mounted, Model No. 6060. It contains a complete description of the Starlight Scope, mechanical training to include assembly, disassembly, operation, functioning, installation, and maintenance, and marksmanship training to include aiming, positions, zeroing, and other information pertinent to its employment and the conduct of operator training.



**Crew-Served Weapon Night Vision Sight
Training Circular 23-13
20 January 1967**

This manual provides guidance for the conduct of training with the Crew-Served Weapon Night Vision Sight. It contains a complete description of the Crew-Served Weapon Night Vision Sight, mechanical training to include assembly, disassembly, operation, installation, functioning, and maintenance; marksmanship training to include boresighting, aiming, positions, and zeroing; and other information pertinent to its employment and the conduct of training.



**Night Observation Device, Medium Range (NODMR)
Training Circular 23-18
24 August 1967**

This manual provides guidance for the conduct of training with the Night Observation Device Medium Range (NODMR). It contains a complete description of the NODMR, mechanical training to include assembly, disassembly, operation, functioning, installation, and maintenance. Information pertinent to the employment and the conduct of operator training is also included.



**Fire Coordination Exercise
Training Circular 71-5
29 October 1996**

This manual provides a framework for planning and executing fire coordination exercises (FCX) with a focus on the execution of maneuver unit tasks critical to the successful synchronization of direct and indirect fires with maneuver at the basic level. It includes a brief description of the various training aids, devices, simulators, and simulations (TADSS) currently fielded or under development. It includes a recommended training frequency chart and a chart showing which TADSS support the training of specific BOS functions according to the unit's echelon. It covers constructive and virtual simulation training aids. It discusses training techniques such as multiple integrated laser engagement system (MILES) for force-on-force training and tank weapons gunnery simulation system (TWGSS), precision gunnery system (PGS), and the various subcaliber training devices for precision gunnery training exercises.

This manual provides sample scenarios for the execution of FCXs and tasks to be trained based on movement to contact, defense in sector, and hasty attack missions at company through brigade level. Also included is an appendix detailing the resources required to physically prepare the FCX training site.

This manual is designed to be used by armored and mechanized companies, battalions, and brigades or similar type organizations whose missions include engaging enemy forces by direct and indirect fires.



Joint Doctrine Encyclopedia
Joint Publication
16 July 1997

This manual is an encyclopedia of terms, phrases, and concepts related to Joint Operations. It includes copious illustrations, briefing slides, and photographs.



Joint Doctrine Capstone And Keystone Primer
Joint Publication
15 July 1997

This manual provides executive summaries and synopses of the key doctrine principles found in Joint Publications 1, 0-2, 1-0, 2-0, 3-0, 3-07, 3-08, 3-16, 3-33, 4-0, 5-0, and 6-0. It also contains an appendix of summaries from the Joint Force Employment briefing modules.



**Joint Force Employment - Operational Art
Joint Publication
1997**

This briefing is one of the publications comprising the Joint Doctrine Joint Force Employment Briefing Modules. It has been specifically designed as a definitive briefing guide for joint doctrine presentations and focuses on employing operational art, in concert with strategic guidance and direction received from superior leaders, in developing campaigns and operations. All the material found in the joint doctrine Joint Force Employment Briefing Modules is drawn directly from approved joint doctrine, without interpretation, and may be reproduced and distributed to advance a better understanding of joint warfare and the principles of joint doctrine.

The module is organized into two main sections. The first section contains slides and a briefing script. A briefing slide is depicted on the left hand page along with its accompanying script on the facing page. The particular Joint Doctrine Publication from which the material is drawn is identified as (Source) on the briefing script. Appendix A contains an outline of the briefing script.



Department Of Defense Dictionary Of Military And Associated Terms
Joint Publication 1-02
23 March 1994
7 December 1998 - Ammended

This manual sets forth standard military terminology to govern the joint activities and performance of the Armed Forces of the United States in joint operations as well as the terminology basis for US military involvement in multinational and interagency operations. It provides military terminology for use by the Armed Forces in preparing their appropriate plans.

Terms and definitions approved for both DOD and NATO are marked with an asterisk. Appendix A contains the English version of all currently approved NATO-only terms, less the definition. Appendix B contains a listing of current abbreviations and acronyms approved for use within the Department of Defense.

This manual is promulgated for mandatory use by the Office of the Secretary of Defense, Military Departments, Joint Staff, combatant commands, and Defense agencies.