

1-5. Characteristics	1-4
1-6. Categories.....	1-5
Section III. Special Considerations	1-5
1-7. Battles in Built-Up Areas	1-5
1-8. Target Engagement.....	1-5
1-9. Small-Unit Battles	1-5
1-10. Munitions and Special Equipment	1-6
1-11. Communications.....	1-6
1-12. Stress	1-6
1-13. Restrictions.....	1-6
1-14. Fratricide Avoidance	1-7

DISTRIBUTION RESTRICTION: Approved for public release; distribution is unlimited.

*This publication supersedes FM 90-10-1, 30 September 1982.

Chapter 2. URBAN ANALYSIS

Section I. Models of Built-Up Areas 2-1

 2-1. Regional Urban Characteristics 2-1

 2-2. Specific Characteristics of Urban Areas 2-2

 2-3. Characteristics of Urban Areas 2-2

Section II. Terrain and Weather Analysis 2-6

 2-4. Special Terrain Considerations 2-6

 2-5. Special Weather Considerations 2-7

Section III. Threat Evaluation and Integration 2-8

 2-6. Operational Factors 2-8

 2-7. Urban Counterinsurgency, Counter guerrilla, and Counterterrorist
 Operations 2-9

 2-8. Projected Threat Capabilities 2-11

Chapter 3. OFFENSIVE OPERATIONS

Section I. Offensive Considerations 3-1

 3-1. Reasons for Attacking Built-Up Areas 3-1

 3-2. Reasons for Not Attacking a Built-Up Area 3-1

Section II. Characteristics of Offensive Operations in a Built-Up Area 3-2

 3-3. Troop Requirements 3-2

 3-4. Maneuver 3-2

 3-5. Use of Equipment 3-2

Section III. Types of Offensive Operations 3-3

 3-6. Hasty Attack 3-3

 3-7. Deliberate Attack 3-3

Section IV. METT-T Factors 3-7

 3-8. Mission 3-7

 3-9. Enemy 3-8

 3-10. Terrain 3-8

 3-11. Troops 3-9

 3-12. Time 3-16

Section V. Command and Control 3-17

 3-13. Command 3-17

 3-14. Control 3-17

Section VI. Battalion Task Force Attack on a Built-Up Area 3-17

 3-15. Conduct of Deliberate Attack 3-17

 3-16. Seizure of Key Objective 3-18

 3-17. Infiltration 3-19

 3-18. Route Security 3-20

	page
Section VII. Company Team Attack of a Built-Up Area	3-21
3-19. Attack of a Block	3-21
3-20. Attack of an Enemy Outpost	3-23
3-21. Seizure of a Traffic Circle	3-24
3-22. Seizure of Key Terrain	3-26
3-23. Reconnaissance	3-27
Section VIII. Platoon Attack of a Built-Up Area	3-29
3-24. Attack of a Building	3-29
3-25. Movement Down a Street	3-29
3-26. Counterattacks	3-31
 Chapter 4. DEFENSIVE OPERATIONS	
Section I. Defensive Considerations	4-1
4-1. Reasons for Defending Built-Up Areas	4-1
4-2. Reasons for Not Defending Built-Up Areas	4-2
Section II. Characteristics of Built-Up Areas	4-2
4-3. Obstacles	4-3
4-4. Avenues of Approach	4-4
4-5. Key Terrain	4-4
4-6. Observation and Fields of Fire	4-4
4-7. Cover and Concealment	4-4
4-8. Fire Hazards	4-4
4-9. Communications Restrictions	4-4
Section III. Factors of METT-T	4-5
4-10. Mission	4-5
4-11. Enemy	4-5
4-12. Terrain	4-5
4-13. Troops Available	4-9
4-14. Time Available	4-13
Section IV. Command and Control	4-16
4-15. Command Post Facilities	4-16
4-16. Organization of the Defense	4-16
4-17. Counterattack	4-18
4-18. Defense During Limited Visibility	4-18
Section V. Defensive Plan at Battalion Level	4-19
4-19. Defense of a Village	4-19
4-20. Defense in Sector	4-20
4-21. Delay in a Built-Up Area	4-21

	page
Section VI. Defensive Plan at Company Level	4-23
4-22. Defense of a Village	4-23
4-23. Defense of a City Block	4-25
4-24. Company Delay	4-26
4-25. Defense of a Traffic Circle	4-27
Section VII. Defensive Plan at Platoon Level	4-27
4-26. Defense of a Strongpoint	4-28
4-27. Defense Against Armor	4-29
4-28. Conduct of Armored Ambush	4-32
 Chapter 5. FUNDAMENTAL COMBAT SKILLS	
Section I. Movement	5-1
5-1. Crossing of a Wall	5-1
5-2. Movement Around Corners	5-1
5-3. Movement Past Windows	5-2
5-4. Use of Doorways	5-3
5-5. Movement Parallel to Buildings	5-4
5-6. Crossing of Open Areas	5-6
5-7. Fire Team Employment	5-6
5-8. Movement Between Positions	5-7
5-9. Movement Inside a Building	5-9
Section II. Entry Techniques	5-11
5-10. Upper Building Levels	5-11
5-11. Use of Ladders	5-12
5-12. Use of Grappling Hook	5-13
5-13. Scaling of Walls	5-14
5-14. Rappelling	5-16
5-15. Entry at Lower Levels	5-16
5-16. Hand Grenades	5-19
Section III. Firing Positions	5-23
5-17. Hasty Firing Position	5-23
5-18. Prepared Firing Position	5-26
5-19. Target Acquisition	5-34
5-20. Flame Operations	5-37
5-21. Employment of Snipers	5-38
Section IV. Navigation in Built-Up Areas	5-39
5-22. Military Maps	5-39
5-23. Global Positioning Systems	5-40
5-24. Aerial Photographs	5-40

	page
Section V. Camouflage	5-40
5-25. Application	5-40
5-26. Use of Shadows	5-41
5-27. Color and Texture	5-43
Chapter 6. COMBAT SUPPORT	
6-1. Mortars	6-1
6-2. Field Artillery	6-3
6-3. Naval Gunfire	6-4
6-4. Tactical Air	6-4
6-5. Air Defense	6-5
6-6. Army Aviation	6-6
6-7. Helicopters	6-6
6-8. Engineers	6-8
6-9. Military Police	6-8
6-10. Communications	6-9
Chapter 7. COMBAT SERVICE SUPPORT AND LEGAL ASPECTS OF COMBAT	
Section I. Combat Service Support	7-1
7-1. Guidelines	7-1
7-2. Principal Functions	7-1
7-3. Supply and Movement Functions	7-4
7-4. Medical	7-5
7-5. Personnel Services	7-7
Section II. Legal Aspects of Combat	7-8
7-6. Civilian Impact in the Battle Area	7-8
7-7. Command Authority	7-8
7-8. Source Utilization	7-9
7-9. Health and Welfare	7-9
7-10. Law and Order	7-9
7-11. Public Affairs Officer and Media Relations	7-9
7-12. Civil Affairs Units and Psychological Operations	7-9
7-13. Provost Marshall	7-10
7-14. Commander's Legal Authority and Responsibilities	7-10
Chapter 8. EMPLOYMENT AND EFFECTS OF WEAPONS	
8-1. Effectiveness of Weapons and Demolitions	8-1
8-2. M16 Rifle and M249 Squad Automatic Weapon/Machine Gun	8-2
8-3. Medium and Heavy Machine Guns (7.62-mm and .50-Caliber)	8-4
8-4. Grenade Launchers, 40-mm (M203 and MK 19)	8-7
8-5. Light and Medium Recoilless Weapons	8-9
8-6. Antitank Guided Missiles	8-19
8-7. Flame Weapons	8-23
8-8. Hand Grenades	8-26
8-9. Mortars	8-28

	Page
8-10. 25-mm Automatic Gun.....	8-31
8-11. Tank Cannon	8-34
8-12. Combat Engineer Vehicle Demolition Gun	8-38
8-13. Artillery and Naval Gunfire.....	8-38
8-14. Aerial Weapons	8-40
8-15. Demolitions	8-41
Appendix A. NUCLEAR, BIOLOGICAL, AND CHEMICAL CONSIDERATIONS	A-1
Appendix B. BRADLEY FIGHTING VEHICLE.....	B-1
Appendix C. OBSTACLES, MINES, AND DEMOLITIONS	C-1
Appendix D. SUBTERRANEAN OPERATIONS.....	D-1
Appendix E. FIGHTING POSITIONS	E-1
*Appendix F. ATTACKING AND CLEARING BUILDINGS	F-1
*Appendix G. MILITARY OPERATIONS ON URBANIZED TERRAIN (MOUT) UNDER RESTRICTIVE CONDITIONS	G-1
Appendix H. URBAN BUILDING ANALYSIS	H-1
Appendix I. LIMITED VISIBILITY OPERATIONS UNDER MOUT CONDITIONS.....	I-1
*Appendix J. COUNTERING URBAN SNIPERS	J-1
*Appendix K. CLOSE QUARTERS COMBAT TECHNIQUES.....	K-1
*Appendix L. EMPLOYMENT OF ARMED HELICOPTERS IN BUILT-UP AREAS	L-1
*Appendix M. FIELD-EXPEDIENT BREACHING OF COMMON URBAN BARRIERS.....	K-1
*Appendix N. INFANTRY AND ARMOR SMALL-UNIT ACTIONS DURING MOUT	N-1
*Glossary	Glossary 1
References	References 1
Index.....	Index 1