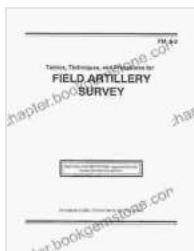


FM Tactics Techniques And Procedures For Field Artillery Survey: Achieving Precision and Accuracy in the Field

Field artillery survey is a crucial aspect of modern warfare, providing the foundation for accurate and effective artillery fire support. The techniques and procedures employed in field artillery survey play a vital role in ensuring the successful execution of artillery missions, enabling units to engage targets with precision and efficiency. This article presents a comprehensive overview of FM tactics, techniques, and procedures for field artillery survey, delving into the principles, methods, and equipment utilized to achieve precise and accurate results in the field.

1. Understanding Field Artillery Survey

Field artillery survey involves determining the exact location and orientation of artillery pieces and targets in order to calculate firing data. It encompasses various tasks, including:



FM 6-2 Tactics, Techniques, and Procedures for Field Artillery Survey by Kaplan Test Prep

★★★★★ 5 out of 5

Language : English
File size : 244211 KB
Text-to-Speech : Enabled
Screen Reader : Supported
Enhanced typesetting : Enabled
Word Wise : Enabled
Print length : 987 pages



- **Establishing a survey control network:** Creating a network of accurately positioned reference points to provide a common framework for all subsequent survey operations.
- **Conducting target location:** Determining the precise coordinates of enemy targets using various techniques, such as sound ranging and flash ranging.
- **Orientation of artillery pieces:** Establishing the precise orientation of artillery pieces, ensuring that they are accurately aligned for accurate firing.
- **Target data computation:** Calculating firing data based on the collected information, such as target coordinates, piece orientation, and ammunition characteristics.

2. Key Principles of Field Artillery Survey

Several key principles guide the conduct of field artillery survey:

- **Accuracy and Precision:** Field artillery survey demands the utmost accuracy and precision at every stage, as even minor inaccuracies can significantly impact the effectiveness of artillery fire.
- **Timeliness:** Survey data must be obtained and processed promptly to ensure timely engagement of targets and support of combat operations.
- **Reliability:** Survey methods and equipment must be reliable, ensuring consistent and accurate results under various field conditions.

3. Techniques and Procedures for Field Artillery Survey

Field artillery survey involves a range of techniques and procedures, each designed for specific purposes and conditions. These include:

- **Sound ranging:** Using the time difference between the arrival of a target's acoustic signature at multiple microphones to calculate its position.
- **Flash ranging:** Measuring the time difference between the detection of a target's muzzle flash and the arrival of its acoustic signature to determine its range.
- **Ground survey:** Employing traditional surveying techniques, such as theodolites and levels, to establish survey control networks and determine target locations.
- **Aerial survey:** Utilizing aerial platforms, such as drones or airplanes, to conduct target location and survey control operations.
- **Target data computation:** Employing computer software or manual methods to calculate firing data based on the collected survey information.

4. Equipment for Field Artillery Survey

Field artillery survey relies on specialized equipment to achieve accurate and reliable results. Key equipment includes:

- **Sound ranging systems:** Microphones, acoustic sensors, and time-measuring devices used for sound ranging.
- **Flash ranging systems:** Photoelectric cells, detectors, and time-measuring devices utilized for flash ranging.

- **Surveying instruments:** Theodolites, levels, and Global Positioning Systems (GPS) for establishing survey control networks and target location.
- **Target data computers:** Specialized software and hardware for rapid and accurate calculation of firing data.
- **Communication systems:** Radios and other communication devices for transmitting survey data and coordinating operations.

5. Training and Proficiency in Field Artillery Survey

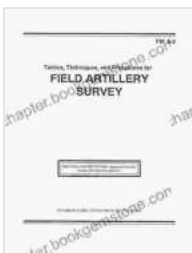
Mastering the techniques and procedures of field artillery survey requires specialized training and continuous practice. Training programs focus on:

- **Theoretical knowledge:** Understanding the principles and concepts of field artillery survey.
- **Practical exercises:** Hands-on experience in conducting various survey techniques and operating equipment.
- **Scenario-based training:** Simulated combat scenarios to test survey skills and decision-making under pressure.
- **Certification and proficiency evaluation:** Regular assessments to ensure that individuals maintain the required level of proficiency in field artillery survey.

6.

Field artillery survey is a critical element of modern warfare, providing the foundation for precise and accurate artillery fire support. By embracing the principles, techniques, procedures, and equipment outlined in this article, field artillery units can effectively locate targets, orient their pieces, and

calculate firing data, enabling them to deliver devastating огневая поддержка on the battlefield. Continuous training and proficiency are essential to maintain the highest levels of accuracy and effectiveness in field artillery survey operations. Through the mastery of these techniques, field artillery units can provide decisive and timely support to combat forces, enhancing their ability to achieve victory in the face of adversity.



FM 6-2 Tactics, Techniques, and Procedures for Field Artillery Survey by Kaplan Test Prep

★★★★★ 5 out of 5

Language : English
File size : 244211 KB
Text-to-Speech : Enabled
Screen Reader : Supported
Enhanced typesetting: Enabled
Word Wise : Enabled

Print length : 987 pages

FREE

DOWNLOAD E-BOOK



Moving to Costa Rica With Kids: A Comprehensive Guide for Families

Costa Rica is a beautiful country with a lot to offer families. From its stunning beaches and lush rainforests to its friendly people and...



Travels in False Binary: Exploring the Complexities of Gender Fluidity and Identity

In a world rigidly divided into male and female, those who defy these binary categories often find themselves navigating a complex and often...