

21st Century U.S. Military Manuals: Tactical Radio Operations (FM 6-02.53) - Networks, Electromagnetic Spectrum Operations, HF and VHF, Ground and Airborne, Ultra HF, Tactical Satellite, SINCGARS



This field manual (FM) serves as a reference document for tactical radio systems. It also provides doctrinal procedures and guidance for using tactical radios on the modern battlefield. This FM targets operators, supervisors, and planners, providing a common reference for tactical radios. It provides a basic guidance and gives the system planner the necessary steps for network planning, interoperability considerations, and equipment capabilities. Chapter 1 - APPLICATIONS FOR TACTICAL RADIO DEPLOYMENT * Modularity * Tactical Radio Deployment * Army Special Operations Forces * Army Force Generation Process * Chapter 2 - TACTICAL RADIOS * Tactical Radio Networks * Electromagnetic Spectrum Operations * Chapter 3 - HIGH FREQUENCY RADIOS * High Frequency Communications Concepts * AN/PRC-150 I Advanced High Frequency/Very High Frequency Tactical Radio * Improving High Frequency Radio Operations * Improved High Frequency Radios * Chapter 4 - VERY HIGH FREQUENCY RADIO SYSTEMS * Single-Channel Ground and Airborne Radio System Characteristics and Capabilities * Single-Channel Ground and Airborne Radio System Radio Sets * Single-Channel Ground and Airborne Radio System Ancillary Equipment * Single-Channel Ground and Airborne Radio System Planning * Single-Channel Ground and Airborne Radio System Wireless Network Extension Station * Single-Channel Ground and Airborne Radio System Jamming and Anti-Jamming * AN/PRC-148 Multiband Inter/Intra Team Radio AN/PRC-152 Multiband Handheld Radio * Chapter 5 - ULTRA HIGH FREQUENCY RADIOS * Force XXI Battle Command, Brigade and Below * Enhanced Position Location Reporting System * Blue Force Tracking * Near

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