



# DESIGN HANDBOOK FOR FIBER OPTIC COMMUNICATIONS SYSTEMS

*U.S. Department Of Defense*

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1.1 Purpose. The purpose of this handbook is to provide uniform Department of Defense (DoD) guidelines for communication engineers, and installation, operation. and maintenance personnel working with fiber optic communications systems. This handbook supports MILSTD-188-111, Interoperability, and Performance Standards for Fiber Optic Communications Systems. Emphasis is on the importance of the major technological advancements in telecommunications, as well as networks and systems, rather than on components and hardware. However, the text does deal with the major components of fiber optic systems, including transmitters, receivers, fiber cable, and associated hardware. Further, it provides practical howto guidance, including generalized real world examples on implementing the requirements in MIL-STD-188-111.

1.2 Applicability. MIL-STD-188-111 is the fiber optic standard which sets the minimum essential requirements for interoperability and performance for long-haul and tactical systems. MIL-HDBK-415 is intended to support the MIL-STD-188-111 requirements with the data and techniques to engineer a compliant fiber system.

1.3 Application guidance. The guidance contained herein provides those directly involved in the design of fiber optic communications systems (FOCS), including engineers, acquisitions personnel, communications specialists, and managers, with the information necessary to plan and engineer fiber optic communications systems, using state-of-the-art materials and technologies This handbook is for use by junior to intermediate technical people .who are not fiber optic specialists, but do have a sound general technical background. This handbook may be used in the DoD acquisition process in support of MIL-STD-188-111.

1.4 Suggestions for use. The main purpose of MIL-HDBK-415 is to explain how, to implement the requirements described in MIL-STD-188-111. It is assumed that the users will range from those having some basic knowledge of communications systems to senior fiber optic systems engineers.

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