

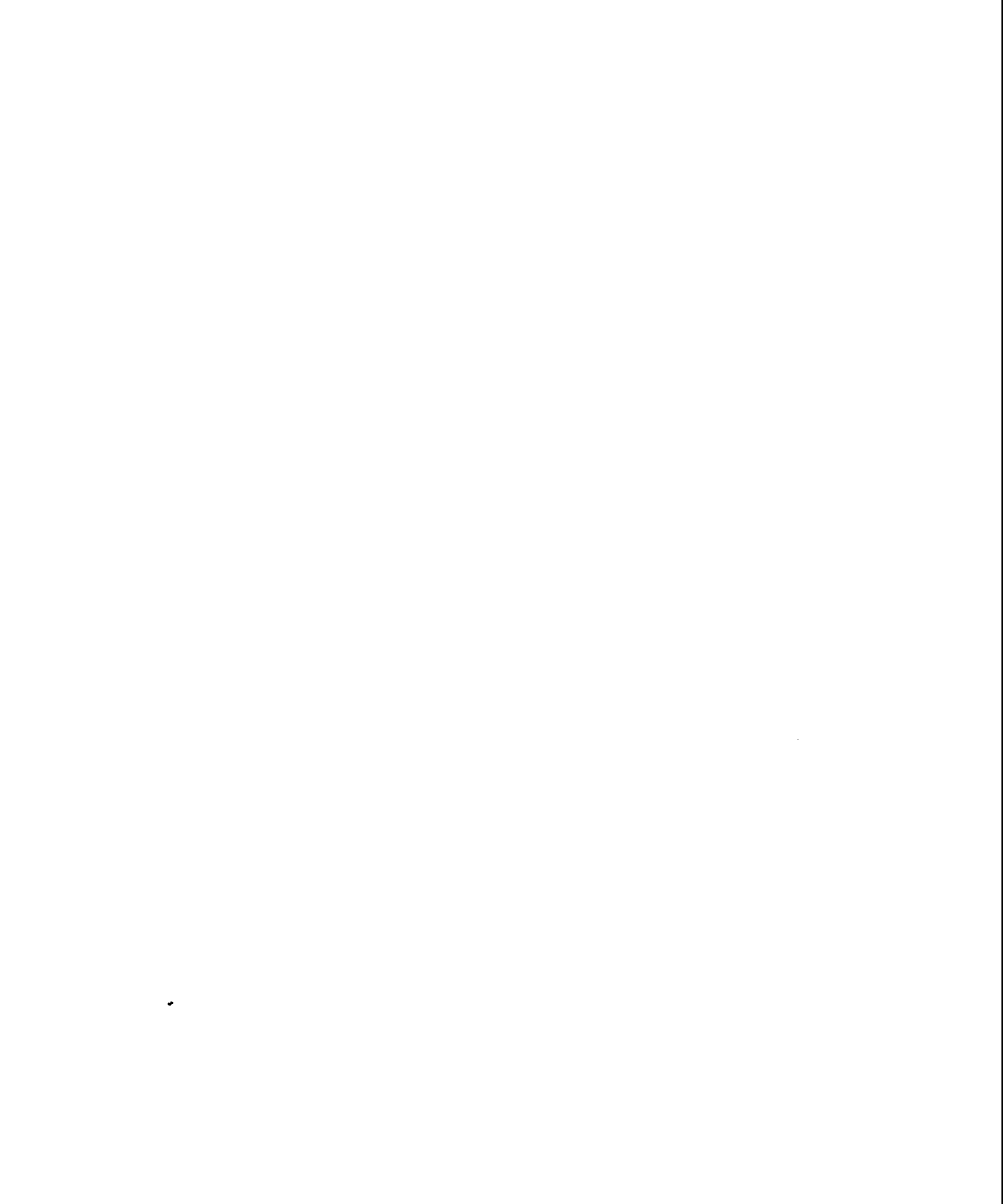
**NAVAL  
SHORE ELECTRONICS  
CRITERIA**

**LINE-OF-SIGHT MICROWAVE  
AND  
TROPOSPHERIC SCATTER  
COMMUNICATION SYSTEMS**

**DEPARTMENT OF THE NAVY  
NAVAL ELECTRONIC SYSTEMS COMMAND  
WASHINGTON, D.C. 20360**

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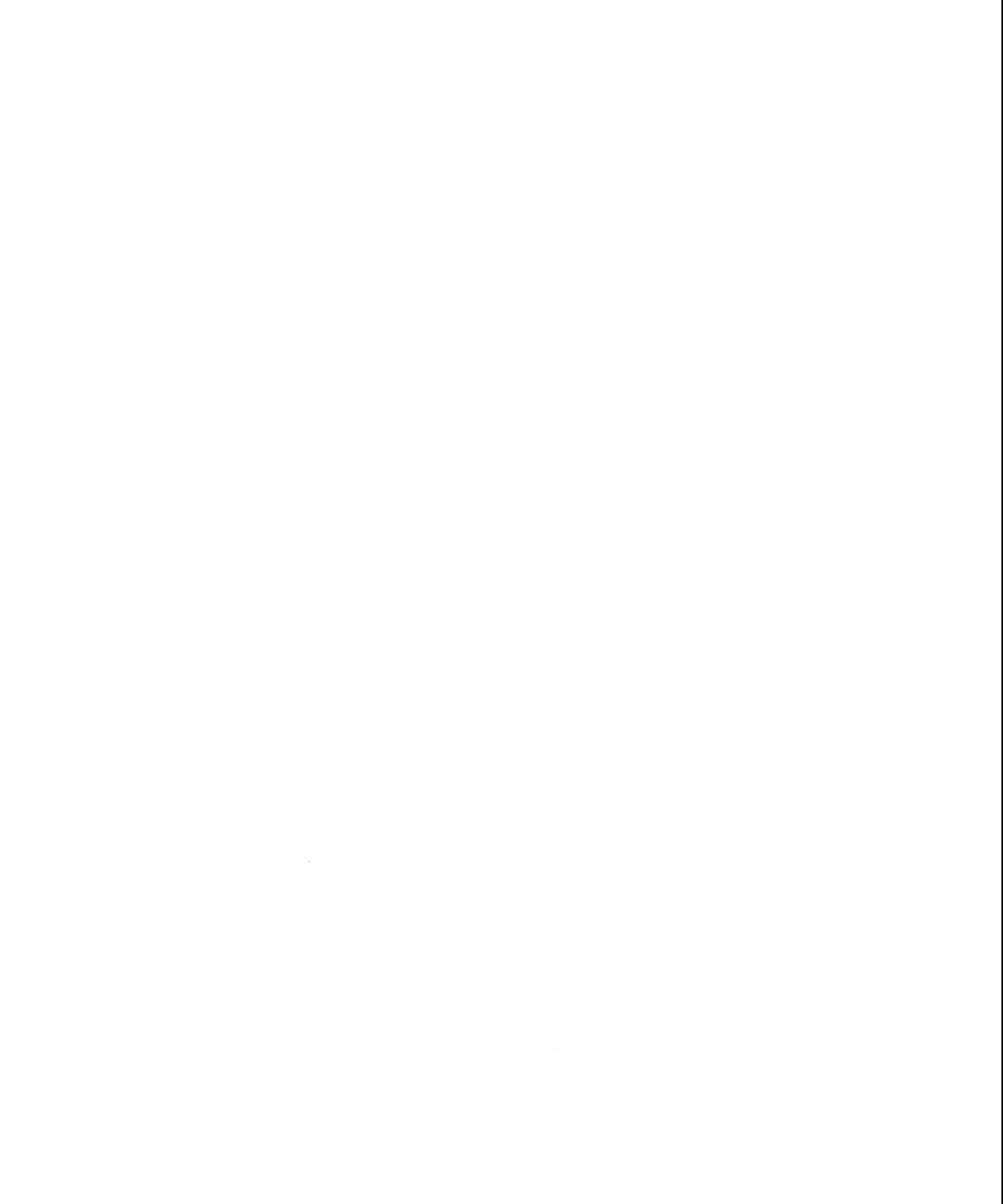
## FOREWORD

This handbook is published for use by the operating forces, systems commands, and field activities as a guide to the systems design and installation of line-of-sight and tropospheric scatter communications systems in the 1 gigahertz-to-10 gigahertz frequency range.

The intent of the document is to provide under one cover, with the exception of terrain and meteorological data of particular sites, sufficient information and one calculation method to perform the electronic systems design for a LOS or troposcatter system. Unique installation requirements have been included together with a listing of applicable standard installation criteria.

Personnel concerned with system design of LOS and tropo facility designs and installations may refer to this handbook for the following:

- o Acquiring data for site selection
- o Predicting transmission path performance
- o Providing criteria for the selection of electronic hardware
- o Providing information about unique installation problems
- o Providing an index of necessary standard installation criteria.



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