

DEVELOPMENT OF A FIELD STRENGTH METER

by

MOUYIS GIORGOS

Project Report

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Project Supervisor : C. Theopemptou
Lecturer in Electrical Engineering
H.T.I.

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SUMMARY

DEVELOPMENT OF A FIELD STRENGTH METER

This project as it will be seen is dealt with the design and Construction of a Field Strength Meter. The purpose of which is to measure the field strength or intensity of an electromagnetic signal. It has been designed primarily for Bands I to UHF. Generally speaking a Field Strength Meter is an extremely useful instrument. Any area or a specific location, not receiving an adequate signal can be determined.

Because of the difficulty in having a complete circuit of such meter, having in mind that it should not be very sophisticated, for obvious reasons, such as time required to construct it, the procedure which was followed during all the time was a detail research of the problem. After that and having all the possible solutions in mind, I have tried to construct a field strength meter which would be used not only for field strength measurements but also to provide polar plot diagrams, with the aid of a computer, specifically programmed.

This Meter provides the user by means of calibration as well as the ability of listening at any time the station's sound signal. This is one of few possible techniques on determining the frequency of the transmitted signal.

Ending this brief statement it can be said that the development of a Field Strength Meter, was a unique chance for me to understand in a better way all those things, as far as Radio (and space) Communication is concerned.

MOUYIS GIORGOS

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