

INTRODUCTION TO MICROWAVE COMMUNICATIONS

Microwaves are electromagnetic waves (E.M. waves) having wavelength in the micron range. Though microwave frequencies refer to those from 1GHz to 10⁶GHz but generally used for those wavelengths measured in centimeters, roughly from 10cm to 1cm(3 to 30 GHz) and the waves having wavelengths less than 1cm corresponds to higher frequencies(>30 GHz) are called millimeter waves (mm waves).

MICROWAVE FREQUENCIES

Relationship between the frequency (f) and the wavelength (λ) of an E.M. wave is

$$\lambda f = c$$

Where c is velocity of electromagnetic radiation, usually called the speed of light.

IEEE Microwave Frequency Band:

Designation	Frequency range in GHz
HF	0.003 to 0.03
VHF	0.03 to 0.3
UHF	0.3 to 1.0
L-Band	1.0 to 2.0
S-Band	2.0 to 4.0
C-Band	4.0 to 8.0
X-Band	8.0 to 12.0
Ku-Band	12.0 to 27.0
K- Band	18.0 to 27.0
Ka-Band	27.0 to 40.0
Millimeter	40.0 to 300
Sub-millimeter	300 and above.

Microwave Lab Manual

Rosina Ehmman



Microwave Lab Manual:

Reviewing **Microwave Lab Manual**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Microwave Lab Manual**," an enthralling opus penned by a highly acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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