

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

Xiang Xie



Microwave Lab Manual:

The Enigmatic Realm of **Microwave Lab Manual**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Microwave Lab Manual** a literary masterpiece penned with a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of those that partake in its reading experience.

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