

The Problems and Solutions Regarding RF in Absence of Working Internet

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ABSTRACT

Now a days entire world has utilizing internet, suppose if we analyze without internet, then we have to go back offline mode every sector whether it may be in banking sector, business commercial or domestic one. It is very critical point to consider life without internet. It is very sad for human beings for luxurious life to utilize technologies unless internet. This paper is dealing with resolution of RF wave stability and its retaining spectrum for absence of internet. Further we can go alternate way to our traditional old techniques based on learning from principles using cameras we can send images shares data, audio and video. Now the question is how to overcome these problems if such problems arise in future. Of course we don't know exactly nature rule when and where to happen unknowingly. Avoiding barrier to radio waves is such one way to control attenuation to signals.

Keywords: Stable Balanced RF, Copper and Water, Barrier, Penetration

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I. INTRODUCTION

Digital information can be received, transformed, fetching and retrieve data back and forth via radio waves in the range of 3kHz-300kHz. It may be in the form of tethering, Wi-Fi, Bluetooth, hotspot or USB. RF is a measurement of oscillations rate of electromagnetic radiation spectrum or waves. Beyond RF is IR infrared zone, ultraviolet and other waves X-rays, gamma rays. Examples on these waves devices like microwave oven, doors garage, TV remote (IR), which are shorter electromagnetic. RF used in communication technology like TV, mobile phones and radios, etc. The penetration to these radio waves are non-conducting materials from building materials like wall, concrete, wood, bricks, etc. and travel

through air. The radio waves can't pass through metals and water, Copper is such an example which makes barrier shielding RF. Usually by the principle of diffraction. These radio waves travel there is no medium. Almost same speed as that of speed of light 300000000 m/s and waves produced from moving charged particles example electric current in a wire. The copper and water as the medium for RF barrier which attenuates loss of radio signals. The 7 layers of IOT and cloud computing also taken into considered.

Controlling and safety measures RF signals:

From atmosphere point of view one can control, save RF signals. As we know every element has 3 states of matter as solid, liquid and gas. So in atmosphere

gaseous form of copper cu element quantity reducing results in attaining good RF signals . similarly Flood

of such situations can be avoiding that can leads good RF signals.

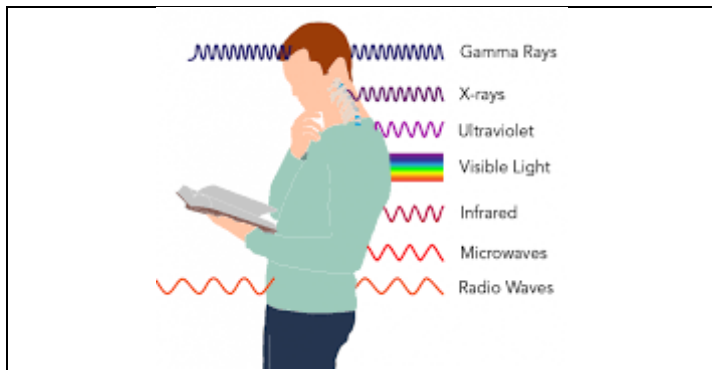


Fig. Barrier and penetration of different radiations

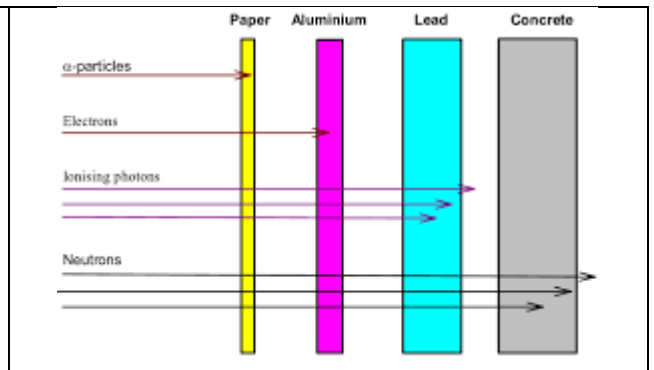
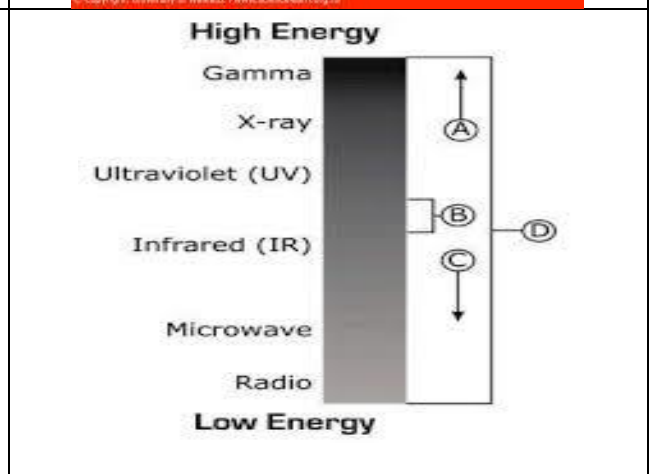
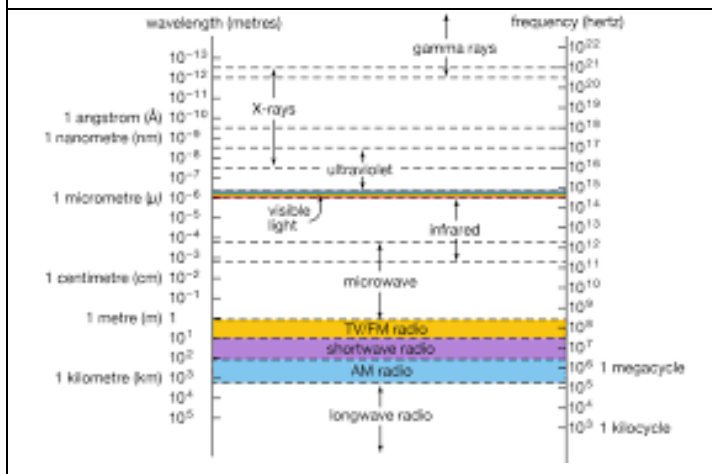
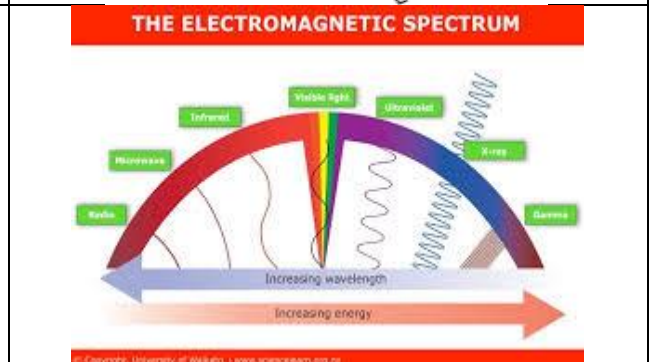
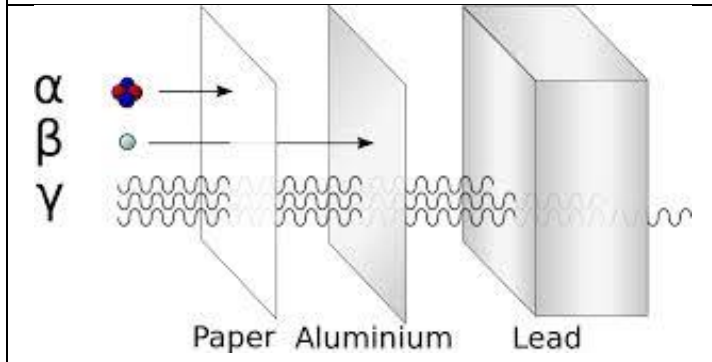
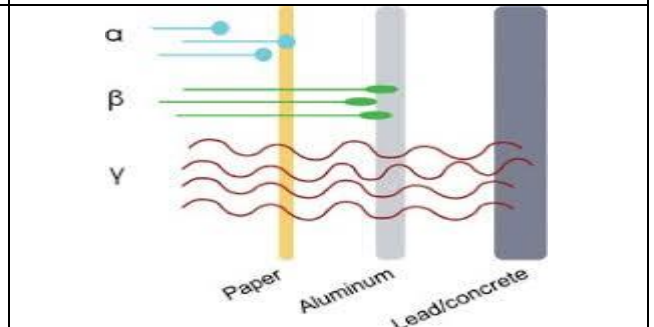


Fig. barrier showing with different materials

Wave	λ Range (m)	Method of Production
Radio	> 0.1	Oscillating electrons in aerials
Microwaves	$10^{-4} - 10^{-1}$	Oscillating electrons in aerials
Infrared	$7.4 \times 10^{-7} - 10^{-3}$	Electron energy level transitions
Visible Light	$3.7 - 7.4 \times 10^{-7}$	Electron energy level transitions
Ultraviolet	$10^{-9} - 3.7 \times 10^{-7}$	Electron energy level transitions
X-rays	$10^{-12} - 10^{-7}$	Large deceleration of electrons
Gamma-rays	$< 10^{-9}$	Nuclear decay



II. PROBLEMS WITHOUT INTERNET LIFE

1. Stoppage of TV signals
2. stoppage of radios working
3. stoppage of mobile phones
4. offline working is comeback
5. banking sector is blocking

III. CONCLUSION

- Water as barrier for RF signals
- Copper as barrier for RF signals
- Building wall ,brick, concrete materials penetration for RF signals
- Wavelength and frequency inverse relationships
- Energy increases as decreases in wavelength
- Blockage from copper and water to RF signals
- Attaining balance to barriers

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