

# THE ELECTROMAGNETIC SPECTRUM

## SUMMARY OF USES AND DANGERS



### RADIO WAVES

USE: USED FOR LONG-RANGE COMMUNICATIONS

REASON: BECAUSE THEY CAN BE REFLECTED FROM THE EARTH'S ATMOSPHERE

### MICROWAVES

USE: SATELLITE COMMUNICATIONS

REASON: BECAUSE MICROWAVES CAN PENETRATE EARTH'S ATMOSPHERE

### INFRARED

USE: OPTICAL FIBRE COMMUNICATION

REASON: BECAUSE THEY CAN UNDERGO TOTAL INTERNAL REFLECTION

### VISIBLE LIGHT

USE: TAKING PHOTOS AND VIDEOS

REASON: CAMERAS ARE SET UP TO DETECT VISIBLE LIGHT

### ULTRAVIOLET

USE: FOR DETECTING SECURITY INK

REASON: BECAUSE IT FLUORESCES WITH ULTRAVIOLET LIGHTING

### X-RAYS

USE: TO PHOTOGRAPH BONES

REASON: BECAUSE X-RAYS CAN PENETRATE SOFT TISSUES BUT NOT BONE

### GAMMA RAYS

USE: TO STERILISE MEDICAL TOOLS

REASON: BECAUSE GAMMA KILLS BACTERIA

DANGER: HIGH INTENSITY MICROWAVES CAN CAUSE HEATING OF INTERNAL ORGANS

REASON: WATER MOLECULES ABSORB MICROWAVES STRONGLY

DANGER: GAMMA X-RAYS AND HIGH INTENSITY UV CAN HARM CELLS AND CAUSE CANCER

REASON: THEY ARE HIGHLY IONISING DUE TO HAVING A LOT OF ENERGY

# Em Waves Test

**Patrick Vollmar**



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Immerse yourself in the artistry of words with Crafted by is expressive creation, **Em Waves Test** . This ebook, presented in a PDF format ( PDF Size: \*), is a masterpiece that goes beyond conventional storytelling. Indulge your senses in prose, poetry, and knowledge. Download now to let the beauty of literature and artistry envelop your mind in a unique and expressive way.

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