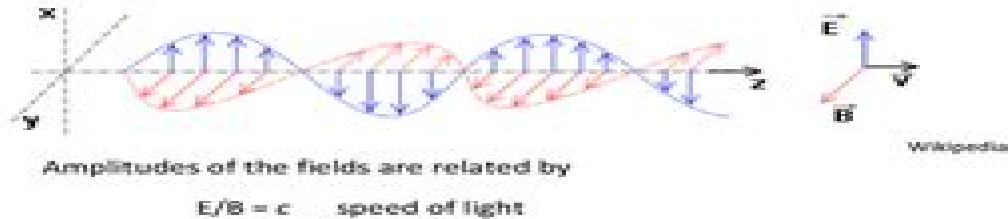
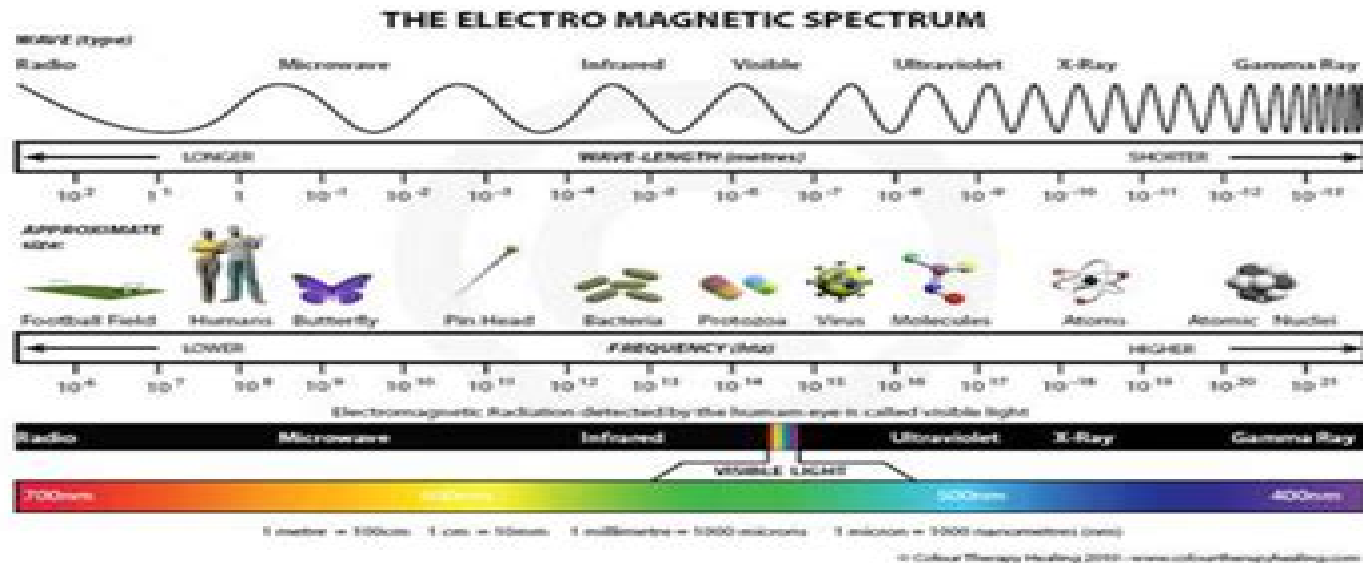


## Electromagnetic Spectrum

1. Electromagnetic waves are produced from the magnetic field and the electric field in the x – y plane combining to form a resultant wave in the z direction.



2. Electromagnetic Spectrum



3. Newton and Young determined that light had wave properties. Light can be reflected, refracted and diffracted.
4. Max Planck found a relationship between the frequency of the wave and the energy of the wave. As frequency increases, wavelength increases.
5. All electromagnetic waves travel at  $3.00 \times 10^8$  m/s in a vacuum.
 
$$c = v = f\lambda$$
6. Einstein's Photoelectric Effect – Einstein showed that violet light produced a current in a conductor, but red light did not.
  - a. Said there was a particle in the light that transferred energy to the electrons in the conductor.
  - b. Red light particles did not have enough energy to start the flow of electricity, but violet light did.
7. Duality of Light – light is a particle that behaves like a wave.
8. Three primary colors of light are red, blue, and green. Mixing all three produces white light.
9. Secondary colors of light come from mixing two of the primary colors.

# Notes Of Electromagnetic Wave Guide

**Reginald Robert Hawkins**



## Notes Of Electromagnetic Wave Guide:

Communications Standard Dictionary Martin Weik, 2012-12-06 Now in its Third Edition the Communications Standard Dictionary maintains its position as the most comprehensive dictionary covering communications technologies available. A one of a kind reference this dictionary remains unmatched in the breadth and scope of its coverage and its primary reference for communications computer data processing and control systems professionals.

**Fiber Optics Standard Dictionary** Martin Weik, 2012-12-06 Fiber Optics Vocabulary Development In 1979 the National Communications System published Technical Information Bulletin TB 79-1 Vocabulary for Fiber Optics and Lightwave Communications written by this author. Based on a draft prepared by this author the National Communications System published Federal Standard FED STD 1037 Glossary of Telecommunications Terms in 1980 with no fiber optics terms. In 1981 the first edition of this dictionary was published under the title Fiber Optics and Lightwave Communications Standard Dictionary. In 1982 the then National Bureau of Standards now the National Institute of Standards and Technology published NBS Handbook 140 Optical Waveguide Communications Glossary which was also published by the General Services Administration as PB82-166257 under the same title. Also in 1982 Dynamic Systems Inc. Fiber Optic Sensor Technology Handbook co-authored and edited by published by this author with an extensive Fiber Optic Sensors Glossary. In 1989 the handbook was republished by Optical Technologies Inc. It contained the same glossary. In 1984 the Institute of Electrical and Electronic Engineers published IEEE Standard 812-1984 Definitions of Terms Relating to Fiber Optics. In 1986 with the assistance of this author the National Communications System published FED STD 1037A Glossary of Telecommunications Terms with a few fiber optics terms. In 1988 the Electronics Industries Association issued EIA-440A Fiber Optic Terminology based primarily on PB82-166257. The International Electrotechnical Commission then published IEC 731 Optical Communications Terms and Definitions. In 1989 the second edition of this dictionary was published.

Proceedings of the IRE Institute of Radio Engineers, 1953

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acceleration accelerator systems radiation beam systems associated equipment performance characteristics testing use The  
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 function collectively to produce electron X ray beams for radiotherapy     Journal of the Institution of Electronics and  
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