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# Electromagnetic Wave Theory

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Note: This is not the actual book cover

## ELECTRO MAGNETIC SPECTRUM, ITS PRODUCTION, DETECTION AND USES IN GENERAL

Type	Wave length Range Frequency Range	Production	Detection	Uses
Radio	>0.1m $10^6$ to $10^5$ Hz	Rapid acceleration / deceleration of electrons in aerials	Receiver's aerials	Radio, TV Communication
Microwave	0.1mm $10^{11}$ to $10^9$ Hz	Klystron valve or magnetron valve	Point contact diodes	Radar, TV communication
Infrared	1mm to 700nm $10^{11}$ to $10^{14}$ Hz	Vibration of atom or molecules	Thermopiles, Bolometer Infrared Photographic Film	Green House effect, looking through haze, fog and mist, Ariel mapping.
Light	700nm to 400nm $8 \times 10^{14}$ Hz	Electron in an atom during transition	Eye, Photocell, Photographic Film	Photography, Illuminations, Emit & reflect by the objects.
Ultraviolet	400nm to 1nm $5 \times 10^{14}$ to $8 \times 10^{14}$	Inner Shell electron in atom moving from one energy level to a lower energy level	Photocell & photographic film	Preservation of food items, Detection of invisible writing, finger print in forensic laboratory. Determination of Structure of molecules & atoms.



Mar 05, 2022 · MHT CET Syllabus 2022 is released by State Common Entrance Test (CET) Cell, Maharashtra . MHT CET Syllabus 2022 includes the list of topics from which MHT CET question paper will be framed.MHT CET syllabus is based on the curriculum of classes 11 and 12 of Maharashtra State Board of Secondary and Higher Secondary Education.Check An electromagnetic metamaterial affects electromagnetic waves that impinge on or interact with its structural features, which are smaller than the wavelength. To behave as a homogeneous material accurately described by an effective refractive index, its features must be much smaller than the wavelength. [citation needed]For microwave radiation, the features are on the order of ... Revision Notes on Atoms and Molecules The invisible and unknown form of matter The idea of divisibility by Indian philosophers . Maharishi Kanad - He postulated that if we keep on dividing the matter (called as 'padartha') we will get smaller and smaller particles.And soon we will achieve the smallest of particles (called as 'parmanu') which may not divide further.

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