THE FACTS ON FILE DICTIONARY OF TELECOMMUNICATIONS

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radar A system that detects distant objects by measuring the deflection of *microwave* frequencies, used, for example, to provide information about the movement of aircraft, ships or vehicles.

radio frequencies The spectrum of frequencies used for radio transmission and generally considered to be within the range from 20 kHz to 3 GHz. ⇒ article on electromagnetic wayes.

radio frequency carrier wave A radio frequency signal used to carry another signal imprinted upon it by the techniques of modulation.

radio frequency signal Any signal falling within the radio frequency spectrum (20 kHz to 3 GHz) and used to radiate information through space.

⇒ article on electromagnetic waves.

radio frequency spectrum. The range of electromagnetic waves associated with radio and television broadcasting, including transmission in the following bandwidths:

low frequency

(LF)
medium frequency

30 kHz to 300 kHz

(MF)
high frequency (HF)
very high frequency
(VHF)

300 kHz to 3 MHz 3 MHz to 30 MHz 30 MHz to 300 MHz

ultra high frequency
(UHF)

300 MHz to 3 GHz

This spectrum covers the present range of frequencies used for commercial and military/civil communications.

radio receiver A device which can be tuned to receive radio frequency signals and to detect sound signals carried in the broadcast radio signal for audible presentation to listeners.

radio signal Same as radio frequency signal.

radio transmission A form of telecommunication in which message signals are
radiated as energy in the form of radio
waves. Examples of radio transmission
include sound and television public broadcast systems, established to serve a particular geographic area, as well as
directional radio systems designed to
provide a channel for point-to-point communication.

radio transmitter A device capable of capturing signals representing sound or light and converting them by a process of modulation into a form suitable for transmission as electromagnetic waves in the radio frequency spectrum.

radio waves A range of electromagnetic waves, in the frequency spectrum from 20 kHz to 3 GHz, which are suitable for carrying signals across space.

radiometry The measurement of light energy from a source, irrespective of human factors involving the perception of light. Studies concerned with consideration of the human factors are known as photometry.

RAM > random access memory.

random access memory (RAM) A type of storage device used in computers to retrieve information directly with very short access times measured in milliseconds. Any particular retrieval operation will produce information within a more or less constant access time, regardless of the last location addressed. Magnetic disc storage is arexample of such a storage medium, by magnetic tape is not a random access memory medium. \(\sigma\) main memory.

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