

Radiometry And The Detection Of Optical Radiation

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Presents a treatment of fundamental aspects of the generation, transfer and detection of optical and infra-red radiation. Emphasis placed on practical aspects of radiometry in detection. Discusses formal principles of radiometry, signal-to-noise considerations in the detection of optical radiation, and the operation of various radiation detectors.

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Radiometry is the science and technology of the measurement of radiation from all wavelengths within the optical spectrum. The basic unit of power in radiometry is the watt (W). Photometry is concerned only with the measurement of light detected by the eye, i.e. that radiation which falls between the wavelengths 380nm and 750nm.

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Radiometry is the detection and measurement of light wavesin the optical portion of the electromagnetic spectrum which is further divided into ultraviolet, visible, and infrared light.

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Radiometry is a set of techniques for measuring electromagnetic radiation, including visible light. Radiometric techniques in optics characterize the distribution of the radiation's power in space, as opposed to photometric techniques, which characterize the light's interaction with the human eye. The fundamental difference between radiometry and photometry is that radiometry gives the entire optical radiation spectrum, while photometry is limited to the visible spectrum. Radiometry is distinct

[Radiometry - Wikipedia](#)

Radiometry is the science of measuring electromagnetic radiation in terms of its power, polarization, spectral content, and other parameters relevant to a particular source or detector configuration. An instrument which measures optical radiation is called a radiometer.

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Presents a treatment of fundamental aspects of the generation, transfer and detection of optical and infra-red radiation. Emphasis placed on practical aspects of radiometry in detection. Discusses formal principles of radiometry, signal-to-noise considerations in the detection of optical radiation, and the operation of various radiation detectors.

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