

# Quantum theory of radiation

## O.U.P. - What is Quantum Theory of Radiation?

**Quantum theory**

- Electromagnetic radiation can act as a wave or a particle. When electromagnetic radiation acts as a particle, that particle is called a photon.

-The energy  $E$  of a photon is related to its frequency by:

$$E = h f \quad E = h c / \lambda$$

- $h$  = constant.
- $C$  = the speed of light.
- $f$  = the frequency.
- $\lambda$  = lambda is the wavelength.

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This edition was published in 1936



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## What is Quantum Theory of Radiation?

DESCRIPTION Part 5: Basic concepts in optics, particle physics, and thermodynamics.

### Electromagnetic radiation

Interference is the superposition of two or more waves resulting in a new wave pattern.

### CHEM 101

Ultraviolet radiation from sun exposure is the primary cause of skin cancer.

### CHEM 101

Springer Science and Business Media.

## Difference Between Electromagnetic Wave Theory and Planck's Quantum Theory

Every term in the expansion may be understood as one possible way for physical particles to interact with each other via virtual particles, expressed visually using a. Use of the American Physical Society websites and journals implies that the user has read and agrees to our and any applicable. In fact, the calculations predicted the absurd result that, at any temperature, the spectral intensity increases without limit as a function of frequency.

### Light

This is also an important process in photosynthesis, as there are many more pigment molecules than the number that actually undergo photooxidation.

Rev. Mod. Phys. 4, 87 (1932)

Ritter noted that invisible rays near the violet edge of a solar spectrum dispersed by a triangular prism darkened preparations more quickly than did the nearby violet light. Rutherford left New Zealand in 1895, having earned three degrees from the Univ.

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