

Chapter 2

The electromagnetic theory was developed by Maxwell.

Hertz produced electromagnetic waves confirming Maxwell theory.

He also showed that electromagnetic waves and light were one and the same.
 \Rightarrow Light is a wave!

Stefan found experimentally for a hot solid

Stefan's Law $\rightarrow e = \sigma T^4$ (Watt/m²)

T: Kelvin

σ : Stefan-Boltzmann const. = $5.67 \times 10^{-8} \frac{\text{W} \cdot \text{m}^{-2}}{\text{K}^4}$

Five years later, Boltzmann derived Stefan's law from Maxwell + thermodynamics.