

Today

Photoelectric Effect:

Light as particles

Photons - Quanta of electromagnetic waves

The fundamental QM relations:

Energy: $E = hf$ or $E = \hbar\omega$ ($\hbar = h/2\pi$ and $\omega = 2\pi f$)

Momentum: $p = h/\lambda$

These equations relate the wave and particle properties of all quantum mechanical entities.

Reading in the text: 38.1-2,9 and 39.1-5

Note: All reading assignments are listed on the syllabus page.