

photon flux, q_p , Φ_p

Number of photons (quanta of radiation, N_p) per time interval. SI unit is s^{-1} .

Note 1: Mathematical definition: $q_p = dN_p/dt$. If the number of photons is constant over the time interval, $q_p = N_p/t$.

Note 2: This quantity can be used on a chemical amount basis by dividing the photon flux, number basis, q_p , by the Avogadro constant, the symbol then being $q_{n,p}$, the name “photon flux, amount basis”, SI unit is mol s^{-1} ; common unit is einstein s^{-1} .

Note 3: Although the symbol recommended by CEI is Φ_p , the symbol q_p is preferred since Φ is reserved for quantum yield.

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