

radiant power, P

Power emitted, transferred or received as radiation. SI unit is $\text{J s}^{-1} = \text{W}$.

Notes:

1. Mathematical definition: $P = dQ/dt$. If the radiant energy Q is constant over the time interval, $P = Q/t$.
2. In radiometry, flux (Φ) is used with the same units as P . The symbol Φ is reserved for quantum yield in photochemistry. Therefore, the use of flux (Φ) is not recommended.

Source:

PAC, 2007, 79, 293 (*Glossary of terms used in photochemistry, 3rd edition (IUPAC Recommendations 2006)*) on page 410