Table of Radiometric Quantities, from Elachi, 1987

TABLE 2-1. Radiation Quantities

Quantity	Usual Symbol	Defining Equation	Units
Radiant energy	Q		joule
Radiant energy density	W	$W = \frac{dQ}{dV}$	joule/m^3
Radiant flux	Φ	$\Phi = \frac{dQ}{dt}$	watt
Radiant flux density	E (irradiance) M (emittance)	$E, M = \frac{d\Phi}{dA}$	watt/m^2
Radiant intensity	I	$I = \frac{d\Phi}{d\Omega}$	watt/steradian
Radiance	L	$L = \frac{dI}{dA}\cos\theta$	watt/steradian m^2
Hemispherical reflectance	ρ	$\rho = \frac{M_r}{E}$	
Hemispherical absorptance	α	$\alpha = \frac{M_a}{E}$	
Hemispherical transmittance	τ	$\tau = \frac{M_t}{E}$	