

spectral responsivity

The spectral output quantity of a system such as a photomultiplier, diode array, photoimaging device, or biological unit divided by the spectral irradiance $s(\lambda) = dy(\lambda)/dE(\lambda)$, simplified expression: $s(\lambda) = Y_\lambda/E_\lambda$, where Y_λ is the magnitude of the output signal for irradiation at wavelength λ and E_λ is the spectral irradiance of the parallel and perpendicular incident beam at the same wavelength.

See also *responsivity*.

1996, 68, 2276; 1995, 67, 1749