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## NOMENCLATURE

### GENERAL

time	$t$	s
thickness (of tissue)	$d$	mm
volume	$V$	$\text{mm}^3$
absolute temperature	$T$	K
angle	$\alpha, \beta, \gamma, \zeta$	rad
solid angle	$\Omega$	sr
molecular weight	$M$	g/mol
Avogadro's number	$N_A$	1/mol
molecular gas constant	$R$	J/mol·K
heat capacity	$c_{p,v}$	J/kg·K
heat conductivity	$\lambda_c$	W/m·K

### OPTICAL PARAMETERS

frequency	$\nu$	1/s
velocity of light in free space	$c_0$	m/s
velocity of light in medium	$c$	m/s
wavelength	$\lambda$	nm
beam divergence	$\delta$	rad
Poynting vector	$S$	W/cm <sup>2</sup>
radiant flux	$\Phi$	W
irradiance	$E$	W/cm <sup>2</sup>
intensity	$I$	W/cm <sup>2</sup>
photon density	$\varphi$	1/cm <sup>2</sup>
photon flux	$J$	1/s·cm <sup>2</sup>
radiant exposure	$H$	J/cm <sup>2</sup>
dose	$D$	J/cm <sup>3</sup>
refractive index	$n$	
optical activity	$\gamma$	rad/mm
absorption coefficient	$\mu_a$	1/mm
scattering coefficient	$\mu_s$	1/mm
total attenuation coefficient	$\mu_t = \mu_a + \mu_s$	1/mm
optical depth	$d_{\text{opt}} = (\mu_s + \mu_a) \cdot d$	
transmittance	$T_{\%}$	%
reflectance	$R_{\%}$	%
albedo	$a = \mu_s / (\mu_a + \mu_s)$	
phase function	$p$	sr <sup>-1</sup>