$$\begin{split} &\frac{1}{c}\frac{\partial I(r,\nu,\Omega,t)}{\partial t} + \Omega \cdot \nabla I(r,\nu,\Omega,t) = -\sigma(\nu)I(r,\nu,\Omega,t) + \sigma(\nu)B(\nu,T), \\ &\frac{1}{c}\frac{\partial E_m}{\partial t} = \int \int d\nu d\Omega \sigma(\nu)I(r,\nu,\Omega,t) - \int \int d\nu d\Omega \sigma(\nu)B(\nu,T). \\ &\frac{1}{c}\frac{\partial E_m}{\partial t} = \int \int d\nu d\Omega \sigma(\nu)I(r,\nu,\Omega,t) - \int \int d\nu d\Omega \sigma(\nu)B(\nu,T). \\ &\frac{1}{c}\frac{\partial E_m}{\partial t} = \frac{1}{c^3}\frac{\nu^3}{(e^{\frac{i\nu}{kT}}-1)}, \\ &\frac{1}{c}\frac{\partial E_m}{\partial t} = \frac{2h}{c^3}\frac{\nu^3}{(e^{\frac{i\nu}{kT}}-1)}, \\ &\frac{\partial E_m}{\partial t} = \frac{1}{a^3}b(\nu,T)E_r. \\ &\frac{\partial E_m}{\partial t} = \frac{1}{a^3}\frac{15}{a^3}\frac{\frac{i\nu}{kT}^3}{(e^{\frac{i\nu}{kT}}-1)}, \\ &\frac{\partial E_m}{\partial t} = \frac{8\pi^5k^4}{15c^3h^3}, \\ &\frac{\partial E_m}{\partial t} = \int \int d\nu d\Omega \sigma(\nu)I(r,\nu,\Omega,t) - \frac{1}{4\pi}\int \int d\nu d\Omega \sigma(\nu)b(\nu,T)E_r. \\ &\frac{1}{c}\frac{\partial E_m}{\partial t} = \int \int d\nu d\Omega \sigma(\nu)I(r,\nu,\Omega,t) - \frac{1}{4\pi}\int \int d\nu d\Omega \sigma(\nu)b(\nu,T)E_r. \\ &\frac{1}{c}\frac{\partial E_m}{\partial t} = \int \int d\nu d\Omega \sigma(\nu)I(r,\nu,\Omega,t) - \frac{1}{4\pi}\int \int d\nu d\Omega \sigma(\nu)b(\nu,T)E_r. \\ &\frac{1}{c}\frac{\partial E_m}{\partial t} = \int \int d\nu d\Omega \sigma(\nu)I(r,\nu,\Omega,t) - \sigma_p E_r. \\ &\frac{1}{c}\frac{\partial E_m}{\partial t} = \int \int d\nu d\Omega \sigma(\nu)I(r,\nu,\Omega,t) - \sigma_p E_r. \\ &\frac{\partial E_m}{\partial t} = \rho c_v \frac{\partial T}{\partial t}. \\ &\frac{\partial E_m}{\partial t} = \rho c_v \frac{\partial T}{\partial t}. \\ &\frac{\partial E_m}{\partial t} = \rho c_v \frac{\partial T}{\partial t}. \\ &\frac{\partial E_m}{\partial t} = \int \int d\nu d\Omega \sigma(\nu)I(r,\nu,\Omega,t) - \sigma_p a T^4. \\ &\frac{\partial E_m}{\partial t} = \rho c_v \frac{\partial T}{\partial t}. \\ &\frac{\partial E_m}{\partial t} = \int \int d\nu d\Omega \sigma(\nu)I(r,\nu,\Omega,t) - \sigma_p a T^4. \\ &\frac{\partial E_m}{\partial t} = \rho c_v \frac{\partial T}{\partial t}. \\ &\frac{\partial E_m}{\partial t} = \rho C_v \frac{\partial T}{\partial t}. \\ &\frac{\partial E_m}{\partial t} = \int \int d\nu d\Omega \sigma(\nu)I(r,\nu,\Omega,t) - \sigma_p a T^4. \\ &\frac{\partial E_m}{\partial t} = \rho C_v \frac{\partial T}{\partial t}. \\ &\frac{\partial E_m}{\partial t} = \int \int d\nu d\Omega \sigma(\nu)I(r,\nu,\Omega,t) - \sigma_p a T^4. \\ &\frac{\partial E_m}{\partial t} = \rho C_v \frac{\partial T}{\partial t}. \\ &\frac{\partial E_m}{\partial t} = \int \int d\nu d\Omega \sigma(\nu)I(r,\nu,\Omega,t) - \sigma_p a T^4. \\ &\frac{\partial E_m}{\partial t} = \rho C_v \frac{\partial T}{\partial t}. \\ &\frac{\partial E_m}{\partial t} = \int \int d\nu d\Omega \sigma(\nu)I(r,\nu,\Omega,t) - \sigma_p a T^4. \\ &\frac{\partial E_m}{\partial t} = \int \int d\nu d\Omega \sigma(\nu)I(r,\nu,\Omega,t) - \sigma_p a T^4. \\ &\frac{\partial E_m}{\partial t} = \int \int d\nu d\Omega \sigma(\nu)I(r,\nu,\Omega,t) - \sigma_p a T^4. \\ &\frac{\partial E_m}{\partial t} = \rho C_v \frac{\partial T}{\partial t}. \\ &\frac{\partial E_m}{\partial t} = \int \int d\nu d\Omega \sigma(\nu)I(r,\nu,\Omega,t) - \sigma_p a T^4. \\ &\frac{\partial E_m}{\partial t} = \int \int d\nu d\Omega \sigma(\nu)I(r,\nu,\Omega,t) - \sigma_p a T^4. \\ &\frac{\partial E_m}{\partial t} = \int \int d\nu d\Omega \sigma(\nu)I(r,\nu,\Omega,t) - \sigma_p a T^4. \\ &\frac{\partial E_m}{\partial t} = \int \int d\nu d\Omega \sigma(\nu)I(r,\nu,\Omega,t) - \sigma_p a T^4. \\ &\frac{\partial E_m}{\partial t} = \int \int d\nu d\Omega \sigma(\nu)I(r,\nu,\Omega,t) - \sigma_p a T^4. \\ &\frac{\partial E_m}{\partial t} = \int d\nu d\Omega \sigma(\nu)I(r,\nu,\Omega$$