$$B(\lambda) = \frac{2hc^2}{\lambda^5}\frac{1}{e^{\frac{hc}{\lambda kT}}-1} \rightarrow B(\nu) = B(\lambda)\frac{d\lambda}{d\nu}$$ (1)

$$\lambda\nu = c \rightarrow \boxed{\lambda = \frac{c}{\nu}} \quad \boxed{\frac{d\lambda}{d\nu} = -\frac{c}{\nu^2}} \Rightarrow B(\nu) = \frac{2\nu^3}{c^2}\frac{1}{e^{\frac{h\nu}{kT}}-1}$$

[illegible] نسبت به ν از این معادله مشتق بگیریم.

$$I = \int_0^\infty S(\tau_\nu)\, e^{-\tau_\nu \sec\theta}\, d\tau_\nu \sec\theta \xrightarrow{\text{با جایگذاری}}$$ (2)

$$a\underbrace{\int_0^\infty e^{-\tau_\nu\sec\theta}\, d\tau_\nu\sec\theta}_{1} + b\int \tau_\nu\, e^{-\tau_\nu\sec\theta}\, d\tau_\nu\sec\theta$$

$$a + b\cos\theta \int_0^\infty \underbrace{x e^{-x} dx}_{1} \Rightarrow \boxed{I(0) = a + b\cos\theta}$$