

$$dQ = -Q \cdot k \cdot dx$$

linearita
vr̃ci veli~ine ✓

linearita vr̃ci x pro mala' x
jaha'ti konstanta

$$\frac{dQ}{Q} = -k dx \Rightarrow Q = Q_0 \cdot e^{-kx} = Q_0 \cdot e^{-\frac{x}{a}}$$

$$\Rightarrow k = \frac{1}{a}$$

$$h = -\left(\frac{Q}{\frac{dQ}{dx}}\right)^{-1} \Rightarrow a = -\frac{Q}{\frac{dQ}{dx}}$$

hloubka vr̃hu

" (depth of penetration
imag. " skin depth "

$$\int_0^{\infty} \frac{\lambda^{-5}}{e^{\frac{c_2}{\lambda T}} - 1} d\lambda = \left| \frac{c_2}{\lambda T} = z \mid \lambda = \frac{c_2}{z T} \right. \\ \left. -\frac{c_2}{\lambda^2 T} d\lambda = dz \right. \\ \left. d\lambda = -\frac{\lambda^2 T}{c_2} dz \right. =$$

$$= C_1 \int_0^{\infty} \left(\frac{c_2}{z \cdot T}\right)^5 \cdot \frac{1(-1)}{e^z - 1} \cdot \frac{T}{c_2} \cdot \left(\frac{c_2}{z \cdot T}\right)^2 dz =$$

$$z = \infty \Rightarrow \int_0^{\infty} \frac{z^3}{e^z - 1} \cdot \frac{1}{4} dz \Rightarrow$$

$$\sigma_0 = \frac{9}{\pi^4} \cdot \pi^4 \cdot \underbrace{\int_0^\infty \frac{z^3}{e^z - 1} dz}_{\frac{\pi^4}{15}}$$

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