

$$u = \int_0^{\infty} \epsilon d\epsilon g(\epsilon) f(\epsilon)$$

definirada

(01)

$$\Delta U = \int_0^{\infty} d\epsilon \epsilon g(\epsilon) f(\epsilon) - \int_0^{\epsilon_F} d\epsilon \epsilon g(\epsilon)$$

$f(\epsilon)$ nula kwa $\epsilon=0$

hanya kalkulasi behar da.

titikma-baldintu :

$$\epsilon_F \left\{ N = \int_0^{\infty} d\epsilon g(\epsilon) f(\epsilon) = \int_0^{\epsilon_F} d\epsilon g(\epsilon) \right\}$$

$$\epsilon_F \cdot N = \int_0^{\infty} d\epsilon \cdot \epsilon_F g(\epsilon) f(\epsilon) = \int_0^{\epsilon_F} d\epsilon \epsilon_F g(\epsilon)$$

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tantekaku!

$$\int_0^{\epsilon_F} d\epsilon \epsilon_F g(\epsilon) f(\epsilon) + \int_{\epsilon_F}^{\infty} d\epsilon \epsilon_F g(\epsilon) f(\epsilon)$$