



western inputs

$$k(t) = (E(t,0) - E(t,T)) + (E(t,2T) - E(t,T)) + \dots$$

$$\mathcal{L}k(t) = \frac{1}{p} (1 - e^{-pT}) \sum_{r=0}^{\infty} e^{-2rpT} =$$

$$\frac{1}{p} (1 - e^{-pT}) \frac{1}{1 - e^{-2pT}}$$

$$\mathcal{L}k(t) = \frac{1}{p} \cdot \frac{1}{1 + e^{-pT}}$$

$$\mathcal{L}|\sin \omega t| = \frac{\omega}{p^2 + \omega^2} (1 + e^{-\frac{p\pi}{\omega}}) \sum_{r=0}^{\infty} e^{-\frac{r p \pi}{\omega}} =$$

$$\frac{\omega}{p^2 + \omega^2} \frac{1 + e^{-\frac{p\pi}{\omega}}}{1 - e^{-\frac{p\pi}{\omega}}}$$

$$\mathcal{L}|\sin \omega t| = \frac{\omega}{p^2 + \omega^2} \coth \frac{p\pi}{2\omega}$$

$$f(t) = f(t+2a) \sum_{r=0}^{\infty} \dots$$