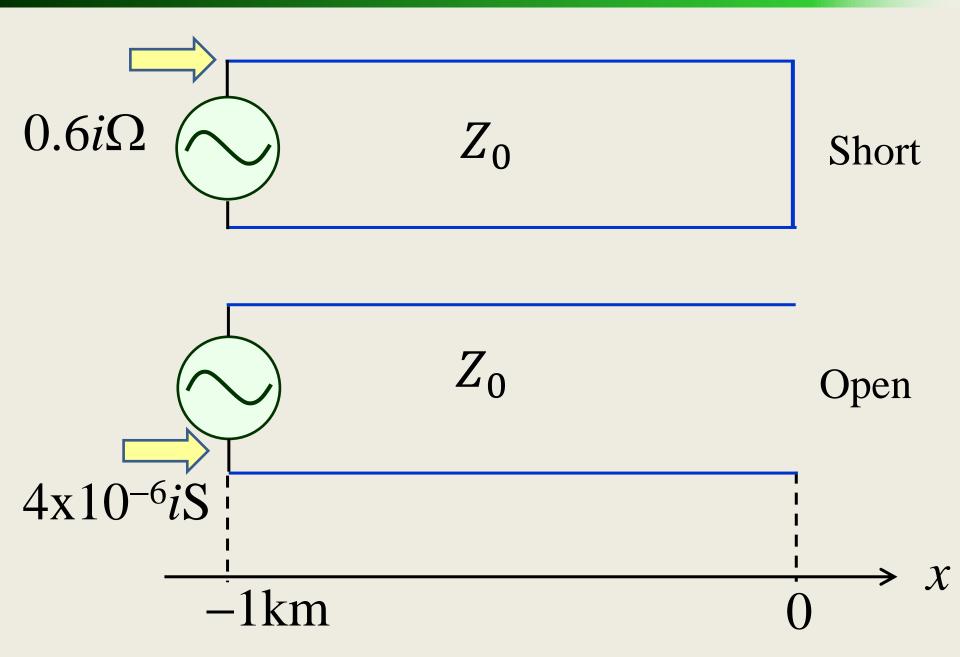


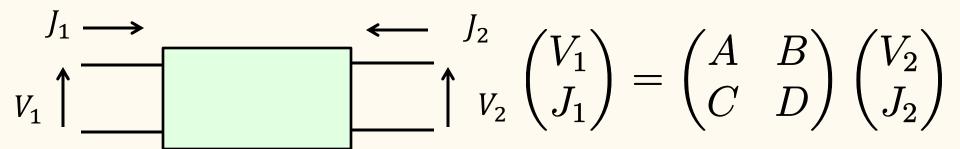
Obtain the Y matrix for the above equivalent circuit (π -shape circuit).

l=1km の伝送線路がある. 終端側を短絡したところ, 電源側から 測定したインピダンスは0.6i Ωであった. 一方, 終端側を開放して 電源側からアドミタンスを測定すると4x10-6i Sであった. この伝送線路の特性インピダンスを求めよ.

Consider a transmission line with the length $l=1 \mathrm{km}$. First we short-circuited the end and measured the impedance from the signal source and obtained $0.6i~\Omega$. Next we opened the end and measured the admittance from the signal source and obtained $4 \mathrm{x} 10^{-6} i~\mathrm{S}$.

What is the characteristic impedance of the transmission line?





Remember F-matrix (cascade matrix) defined above.

Write down the F-matrix form of the transmission line shown below.

