

Obstacle consisting
of N layers

Air

Air

ϵ_0

μ_0

$\epsilon_{r,1}$

$\mu_{r,1}$

d_1

$\epsilon_{r,2}$

$\mu_{r,2}$

d_2

$\epsilon_{r,N}$

$\mu_{r,N}$

d_N

ϵ_0

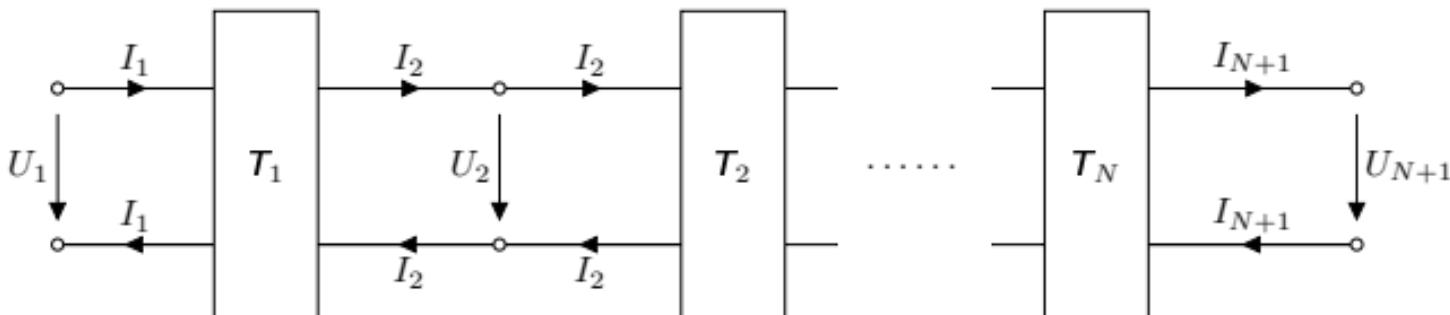
μ_0

1

2

N

(a) Representation of N cascaded layers with individual parameters for electrical permittivity, electrical permeability, and layer thickness.



(b) Equivalent two-port representation of the layers with currents and voltages.