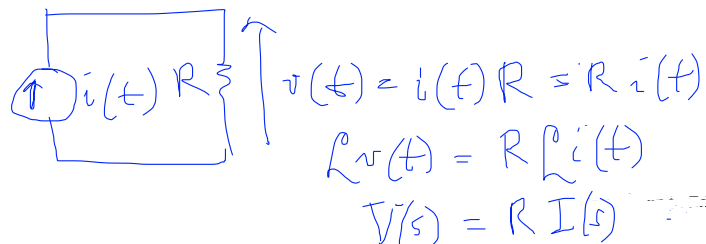
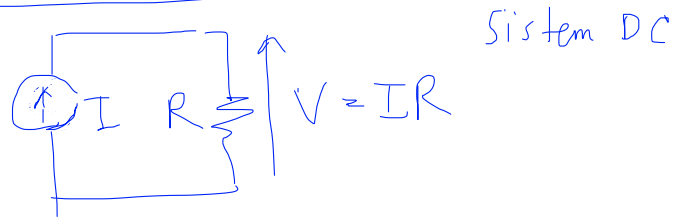


# \* Analisis TRANSIEN \* Analisis STEADYSTATE

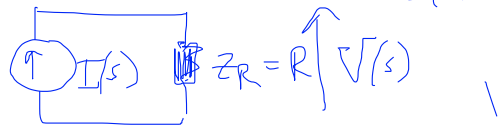
Rangkaian Listrik

## KONSEP IMPEDANSI

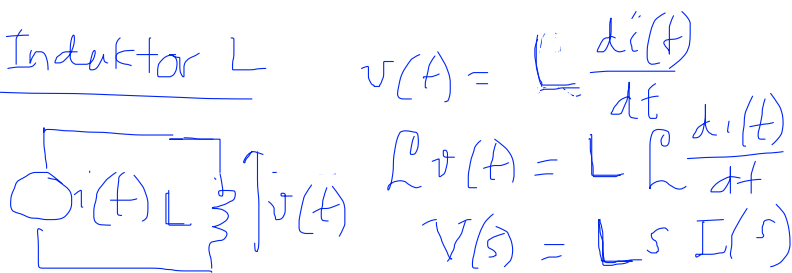
### \* Resistor R



Impedansi R :  $Z_R = \frac{V(s)}{I(s)} = R$



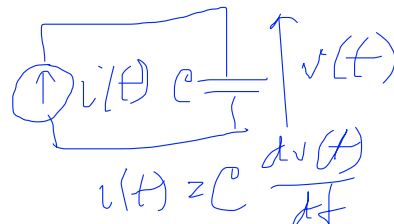
### \* Induktor L



Impedansi L :  $Z_L = \frac{V(s)}{I(s)} = L s$

Property #3  
 hal. 58  
 $i(0) = 0$

### \* Kapasitor C



$v(t) = \int \frac{1}{C} i(t) dt$   
 $= \frac{1}{C} \int i(t) dt$

$\mathcal{L}v(t) = \frac{1}{C} \mathcal{L} \int i(t) dt$

$V(s) = \frac{1}{C} \frac{I(s)}{s}$

Impedansi C :  $Z_C = \frac{V(s)}{I(s)} = \frac{1}{Cs}$

$\mathcal{L}v(t) = \frac{V(s)}{I(s)}$   
 $\mathcal{L}i(t) = I(s)$   
 $\mathcal{L}R = R$   
 $\mathcal{L}L = L s$   
 $\mathcal{L}C = \frac{1}{Cs}$

Model Nisbah Alih  
 rangkaian listrik