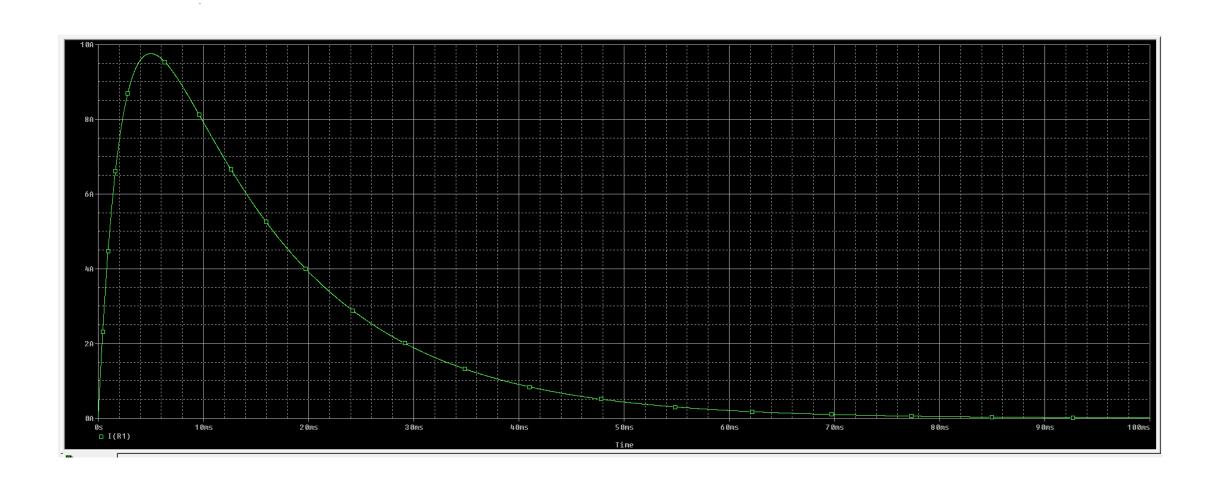
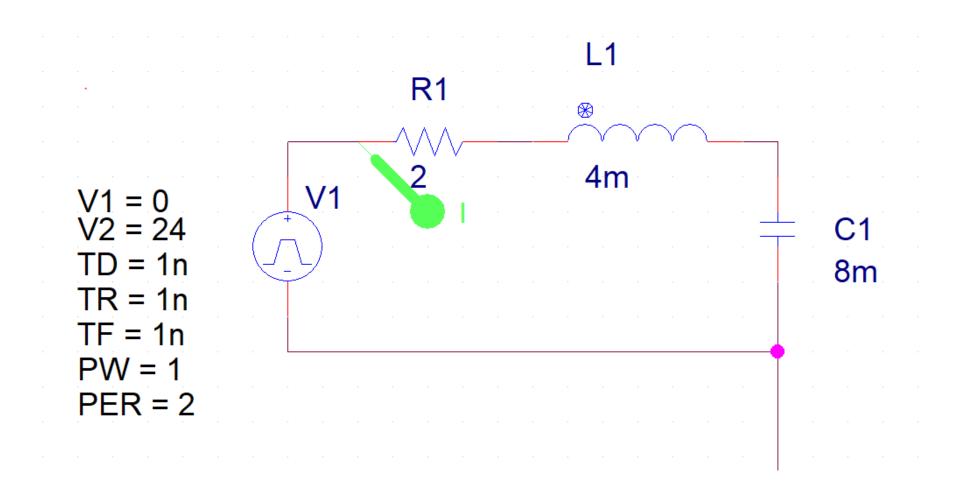
Modeling and implementation of actuator parameters

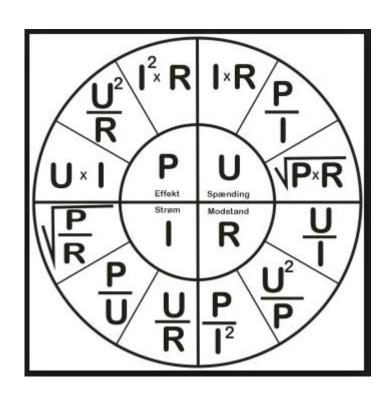
What is behind this curve?



Equalient motor model

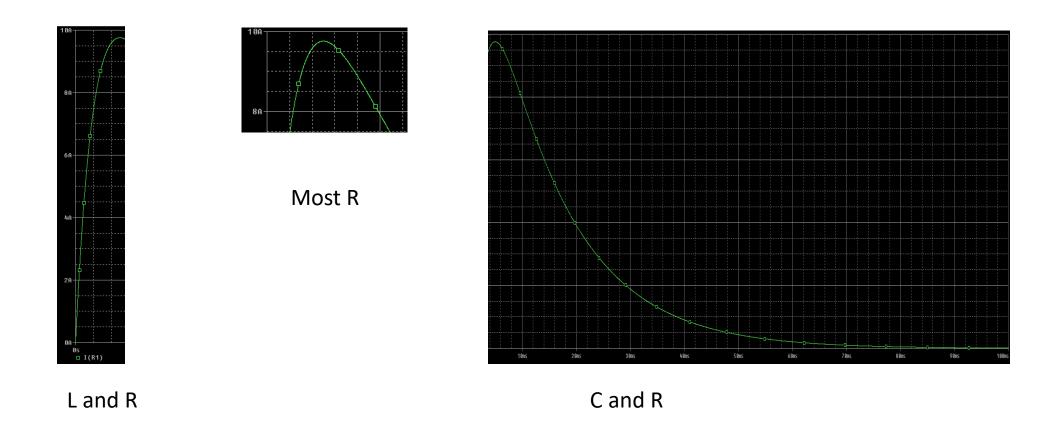


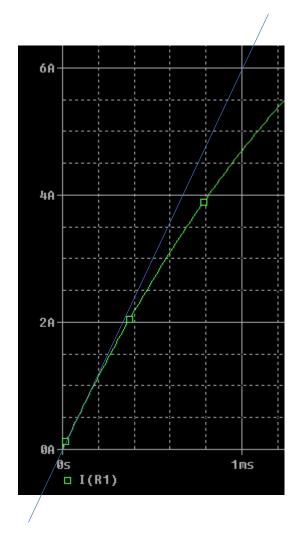
Ohm's extended law



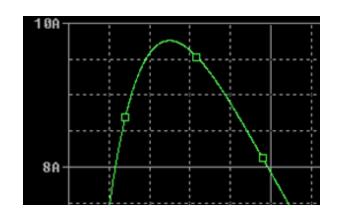
$$I = \frac{dV}{dt} * C$$

$$V = \frac{dI}{dt} * I$$

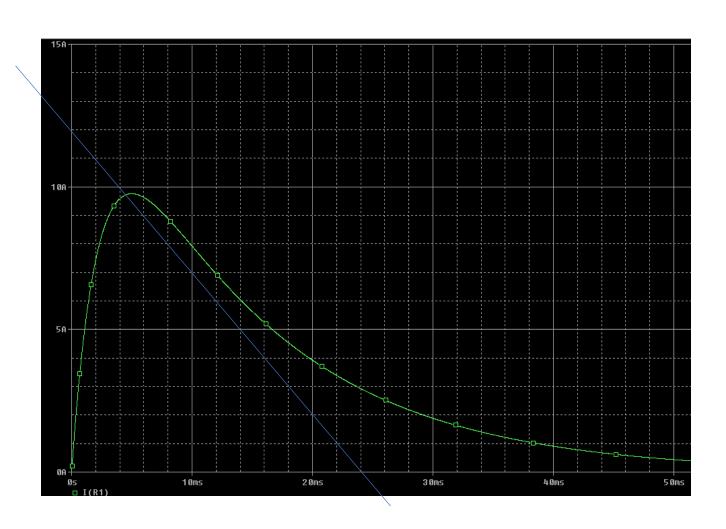




$$V = \frac{dI}{dt} * L$$

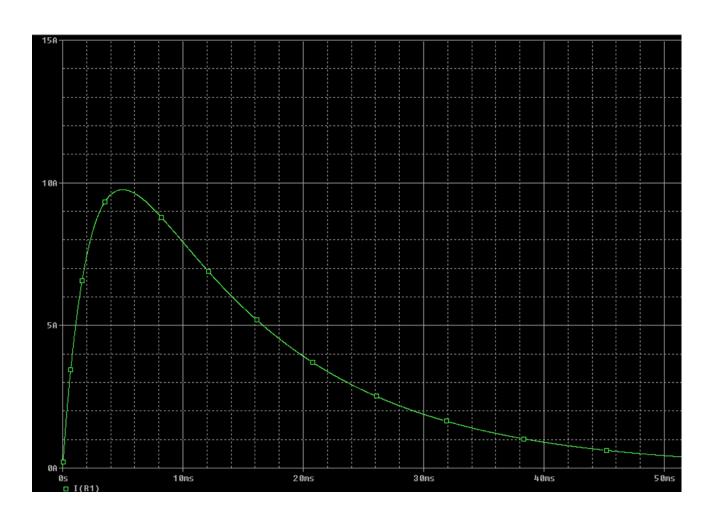


$$I = \frac{V}{R}$$



Here it becoms more difficult

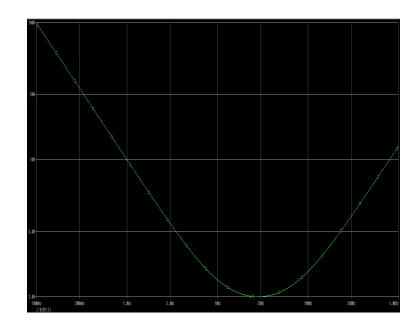
It is not possible to fit in a simple way



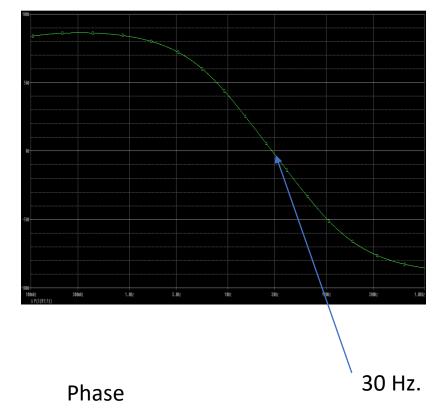
Matematicaly

$$I(t) = V * 0.707 * (e^{-73*t} - e^{-427*t})$$

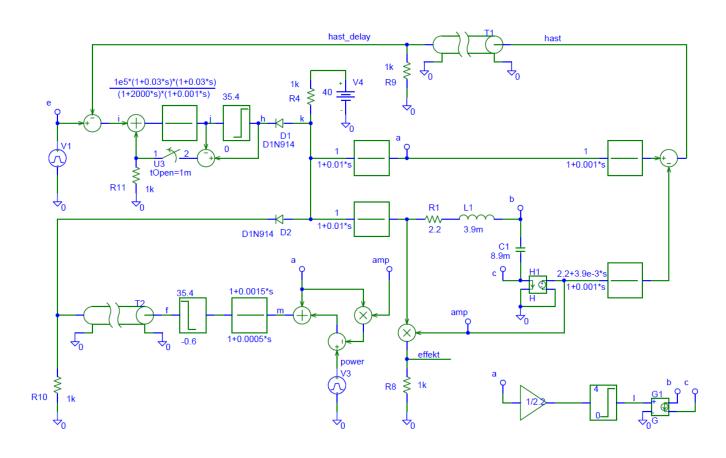
Frequency domain



Impedance



Practical example



And now converted to Z domain

