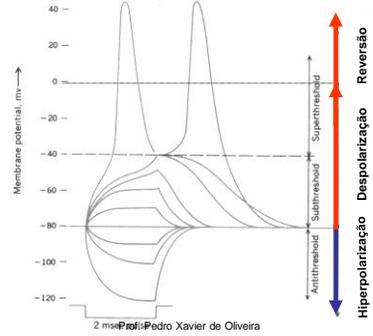


Parâmetros da estimulação elétrica

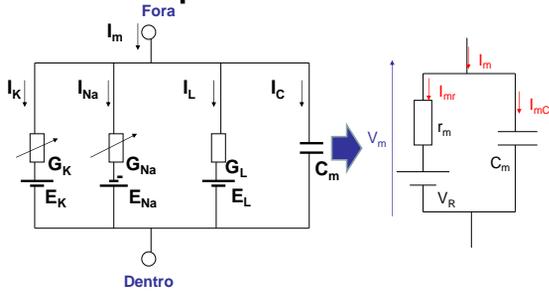
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Modelo passivo da membrana

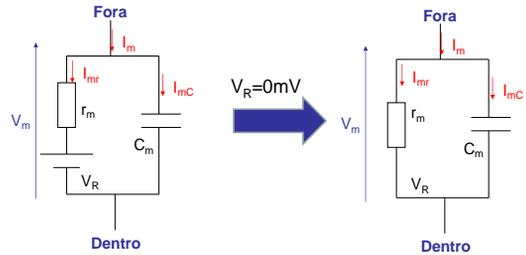


$$I_m = C_m \cdot \frac{dV}{dt} + I_k + I_{Na} + I_L$$

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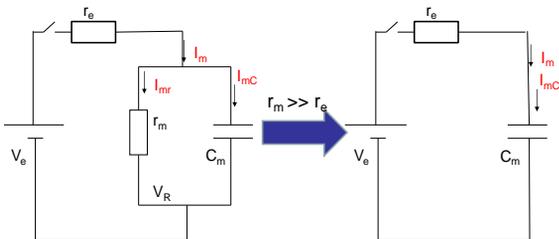
Modelo passivo da membrana



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Modelo de estimulação por fonte de tensão



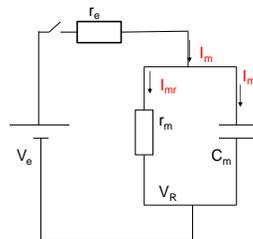
$$V_m = V_e \left(1 - \exp\left(\frac{-t}{r_e C_m}\right) \right) + V_{Ci}$$

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Modelo de estimulação por fonte de tensão

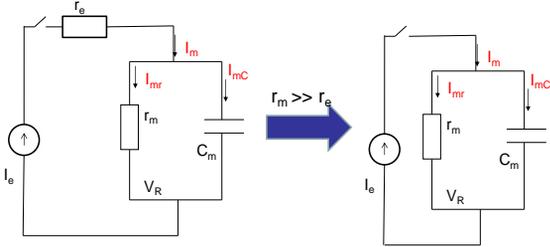


- Para casa:
- 1) Determine V_m .
 - 2) Justifique a aproximação para o modelo simplificado.

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Modelo de estimulação por fonte de corrente

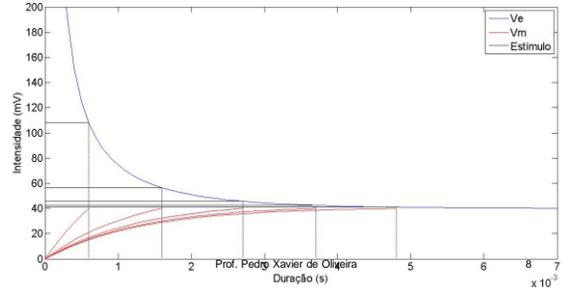


Para casa:
 1) Determine V_m .
 2) Justifique a aproximação para o modelo simplificado.

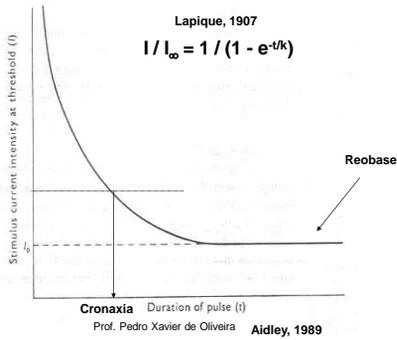
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Curva intensidade - duração

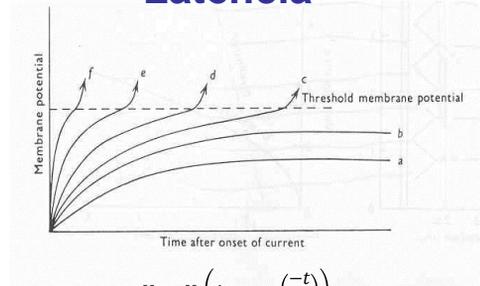
- Premissa: o limiar (V_L) é fixo.
- $V_L = V_e \left(1 - \exp\left(\frac{-t}{\tau}\right) \right) \Rightarrow V_e = \frac{V_L}{1 - \exp\left(\frac{-t}{\tau}\right)}$



Curva intensidade - duração



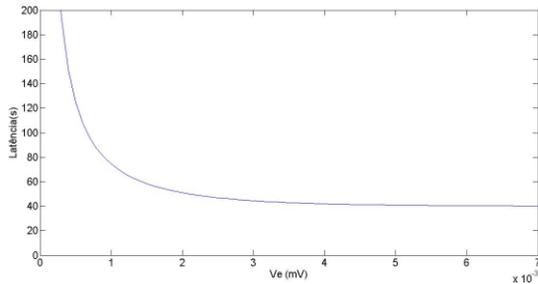
Latência



$$V_L = V_e \left(1 - \exp\left(\frac{-t}{\tau}\right) \right)$$

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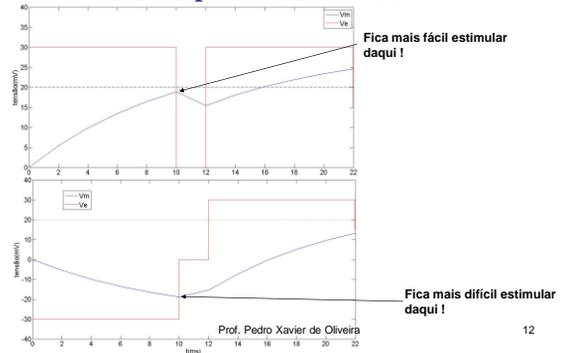
Latência



$$V_L = V_e \left(1 - \exp\left(\frac{-t}{\tau}\right) \right) \rightarrow t = \tau \ln \left(1 - \frac{V_L}{V_e} \right)$$

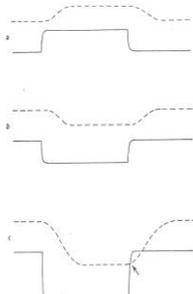
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Adição Latente



Acomodação

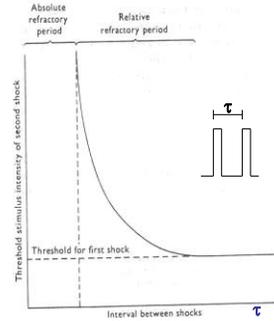
Anode-break excitation



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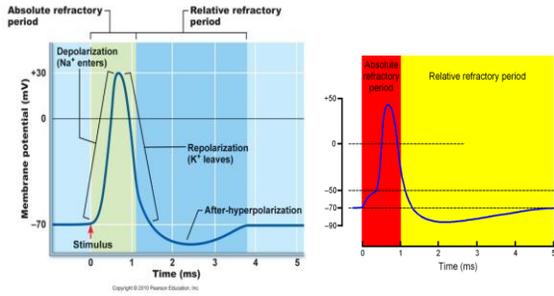
Refratariedade



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Refratariedade



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