

ESCOLA POLITÉCNICA DA USP

DISCIPLINA:

CONVERSÃO ELETROMECAÂNICA DE ENERGIA

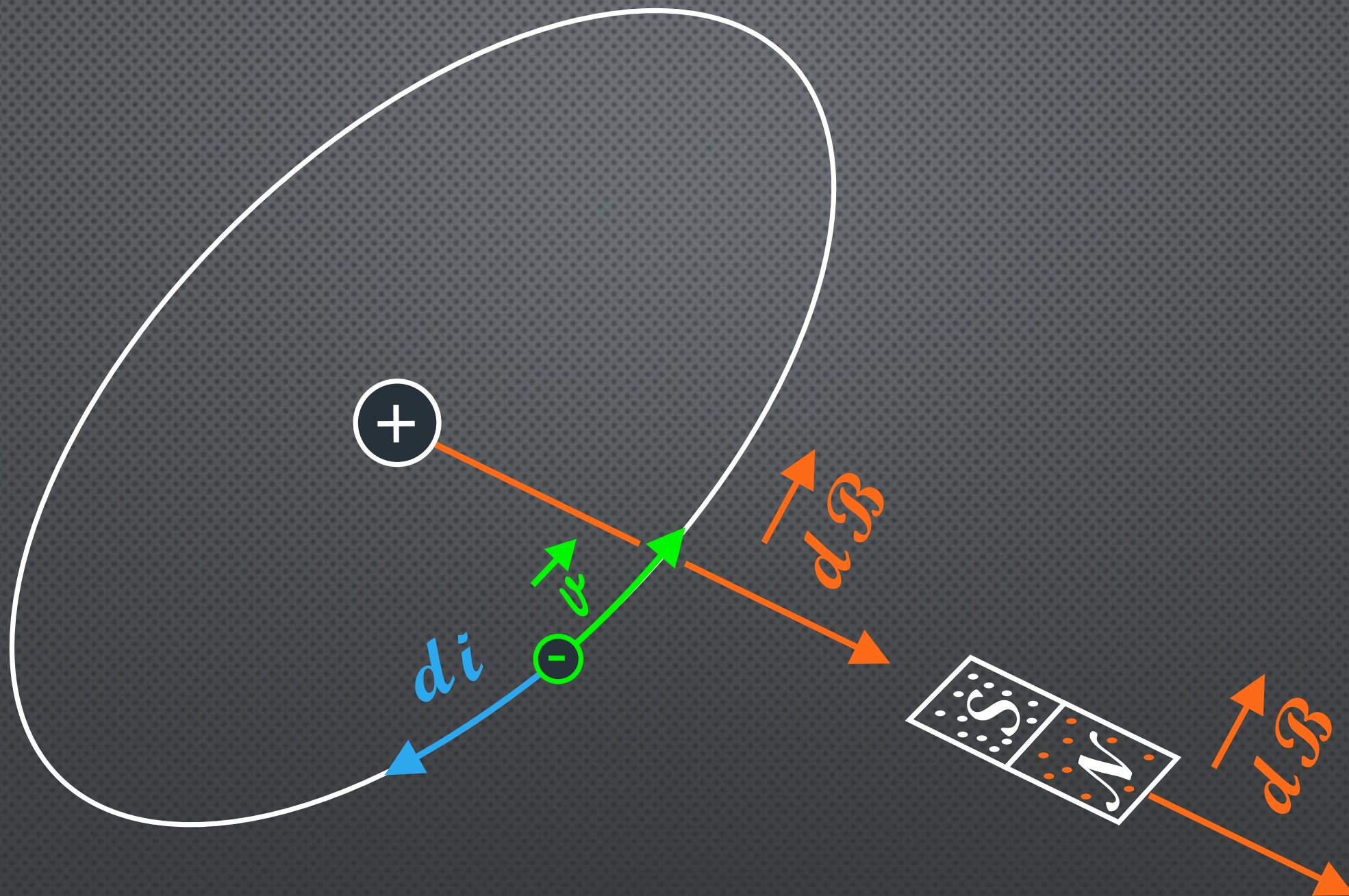
AULA:

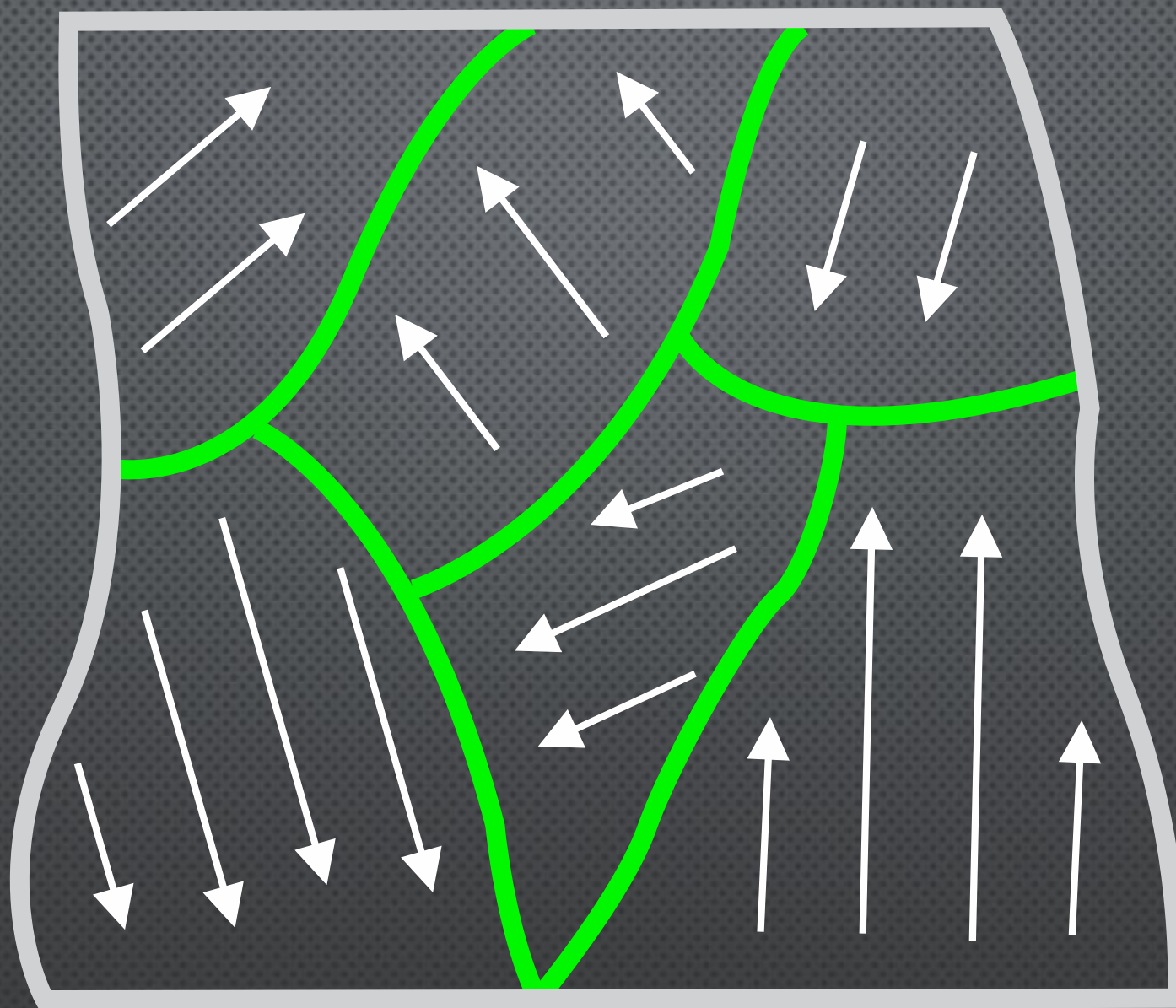
CIRCUITOS MAGNÉTICOS NÃO-LINEARES
EM CORRENTE CONTÍNUA

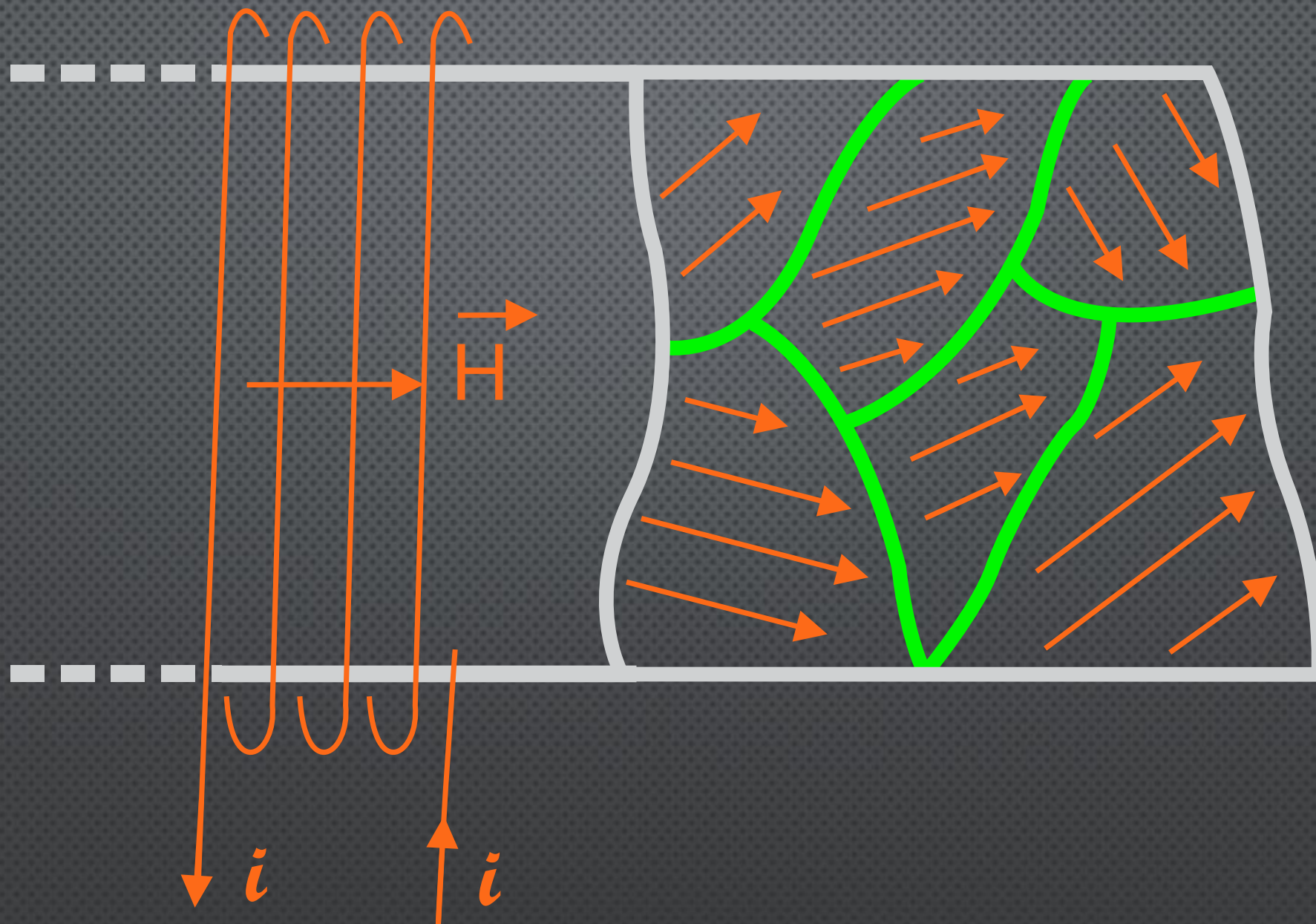
PROFESSOR:

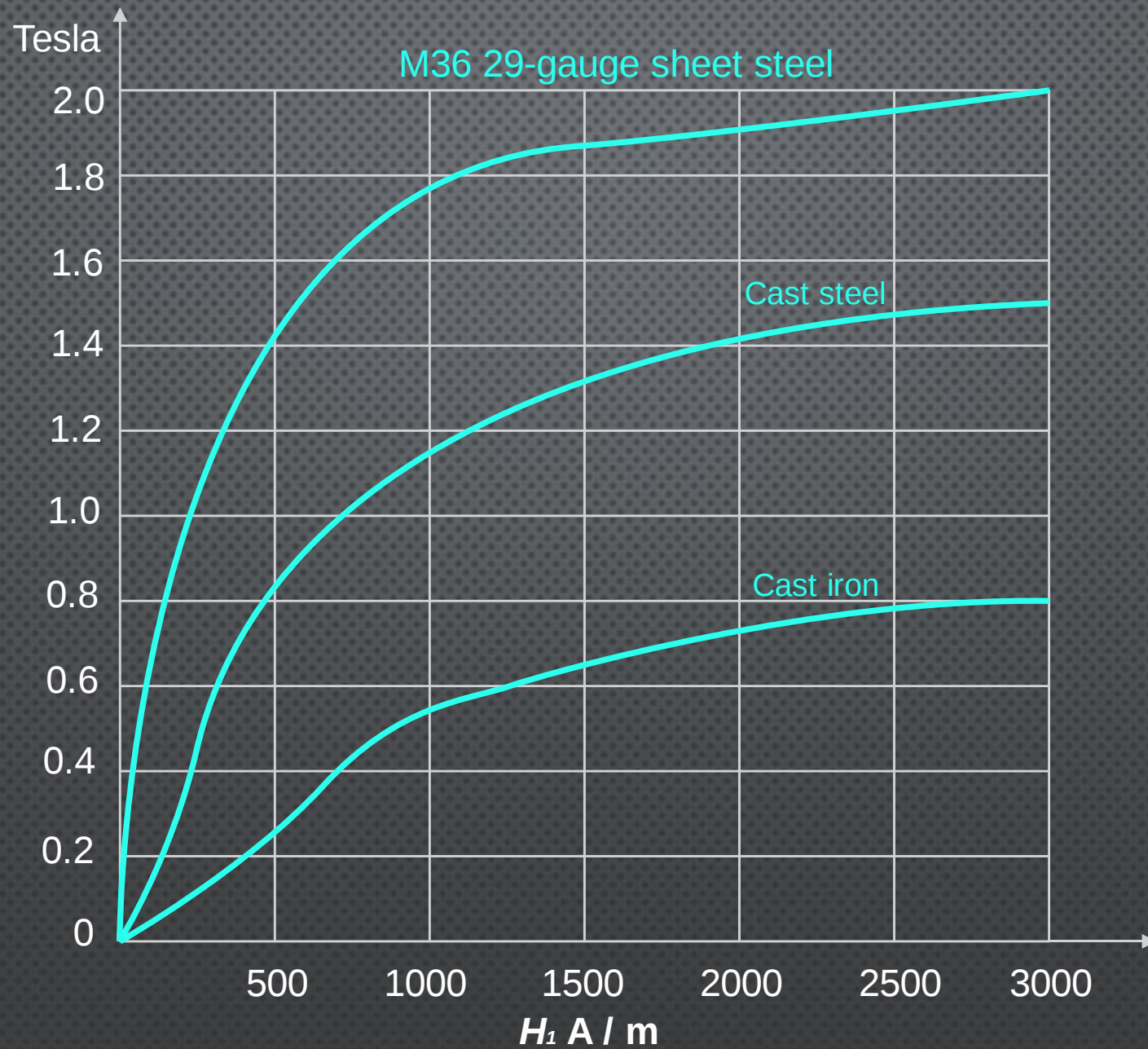
JOSÉ ROBERTO CARDOSO

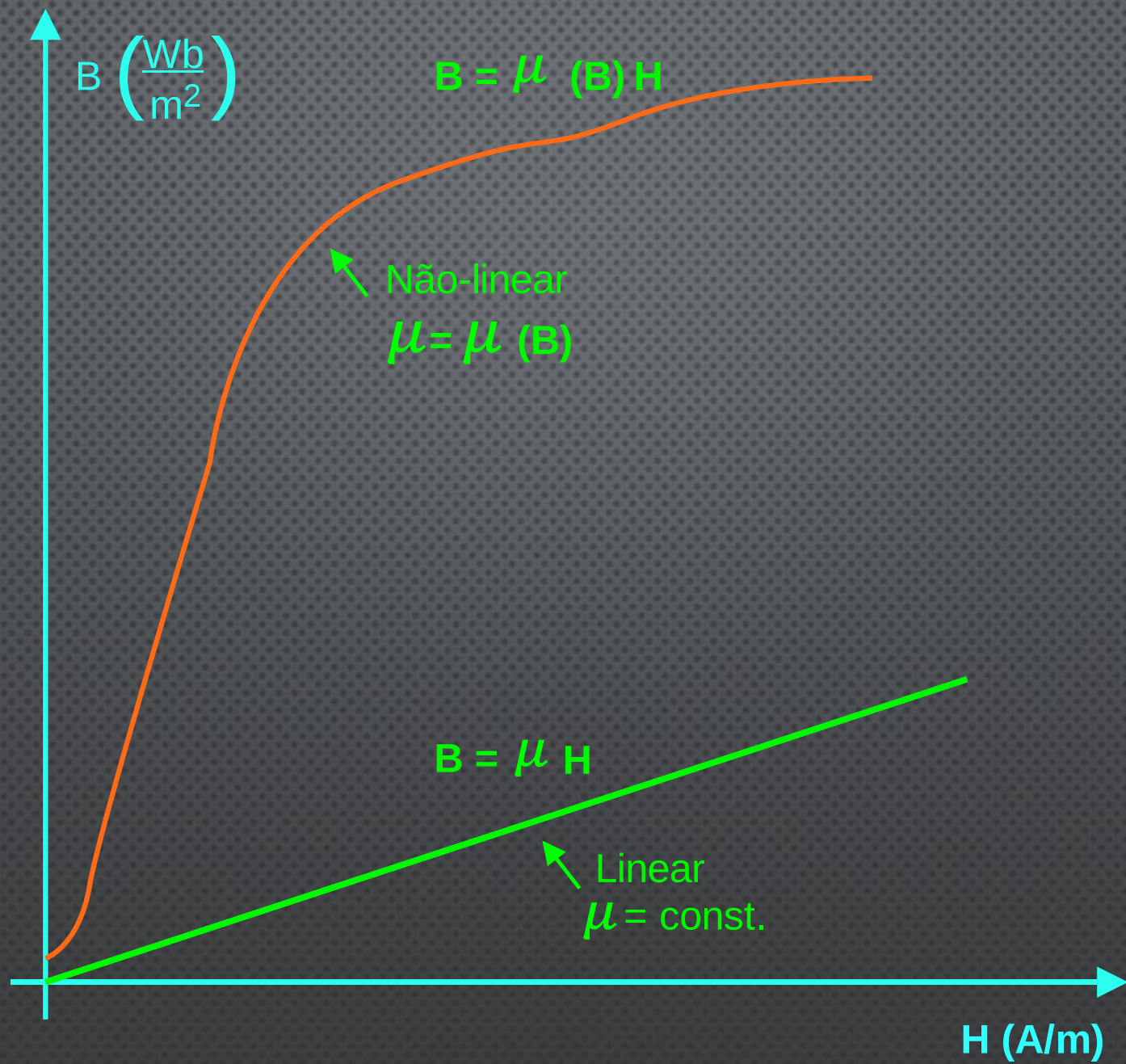


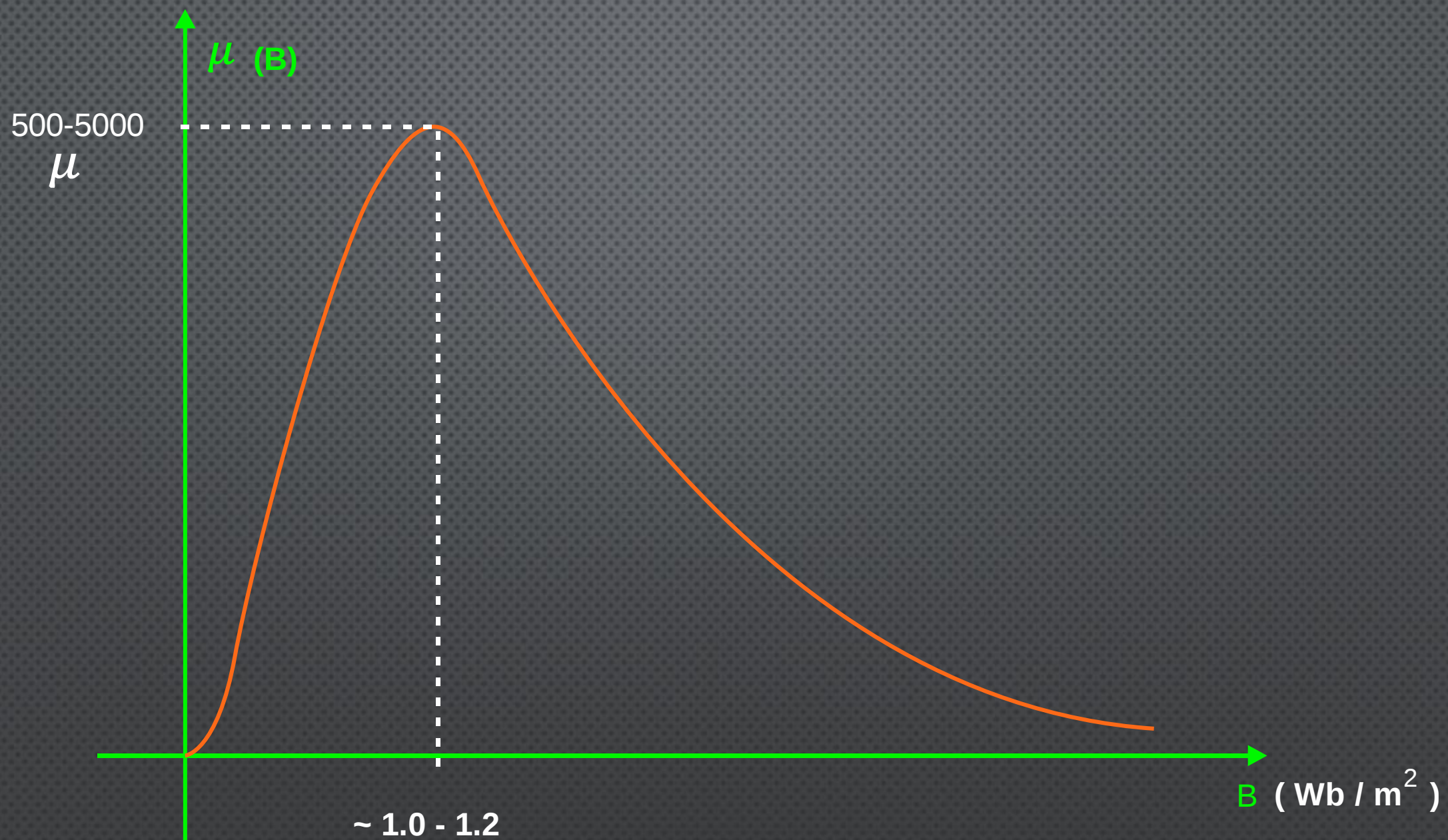












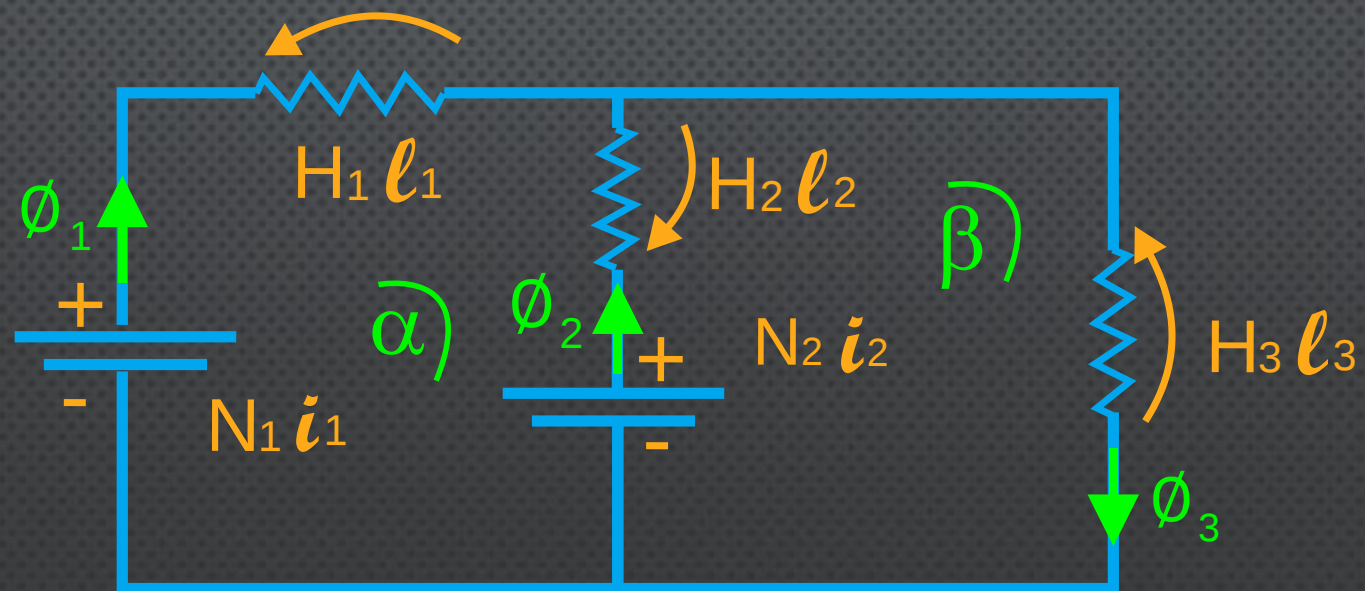
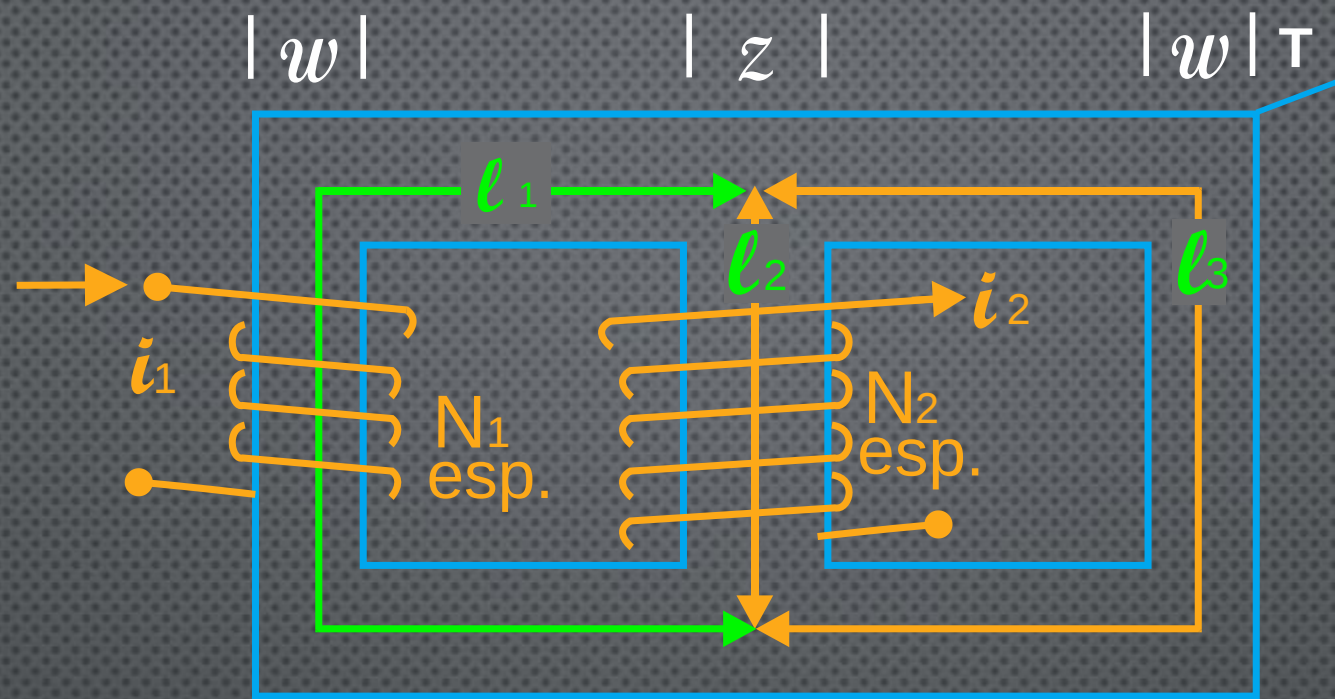
$$R = \frac{1}{\mu} \times \frac{l}{S}$$

Relutância

$$\oint_C \vec{H} \cdot d\vec{l} = \sum_{i=1}^n H_i \cdot l_i$$

$$\int_S \vec{J} \cdot d\vec{S} = \sum N_i i_i$$

$$\sum_{i=1}^n H_{i\cdot} l_i = \sum N_i i_i$$



Malha Alfa

$$N_1 i_1 - H_1 l_1 + H_2 l_2 - N_2 i_2 = 0$$

$$N_1 i_1 - N_2 i_2 = H_1 l_1 - H_2 l_2$$

Malha Beta

$$N_2 i_2 - H_2 l_2 - H_3 l_3 = 0$$

$$N_2 i_2 = H_2 l_2 + H_3 l_3$$