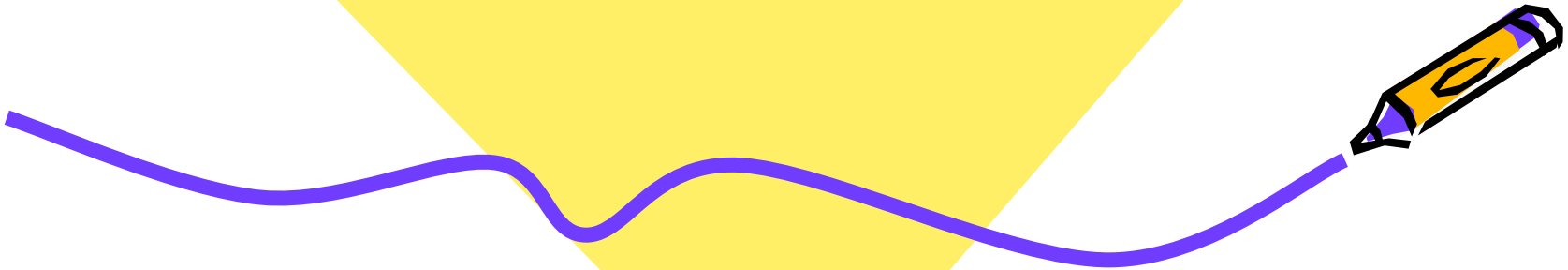
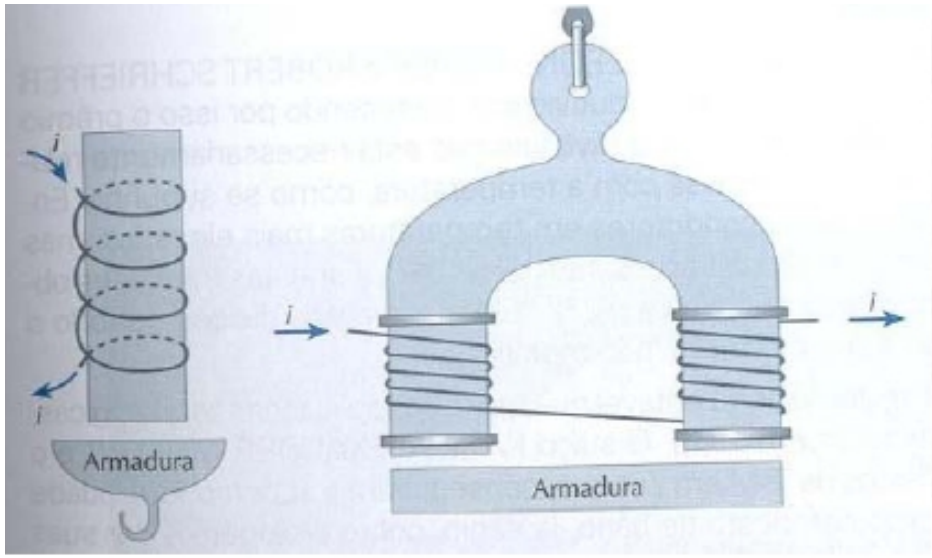
INSTITUTO FEDERAL DE
EDUCAÇÃO, CIÊNCIA E TECNOLOGIA
SANTA CATARINA
Campus Araranguá

Aplicações do ELETROMAGNETISMO

(FONTE: Introdução a Análise de Circuitos, Boylested)



ELETROÍMÃS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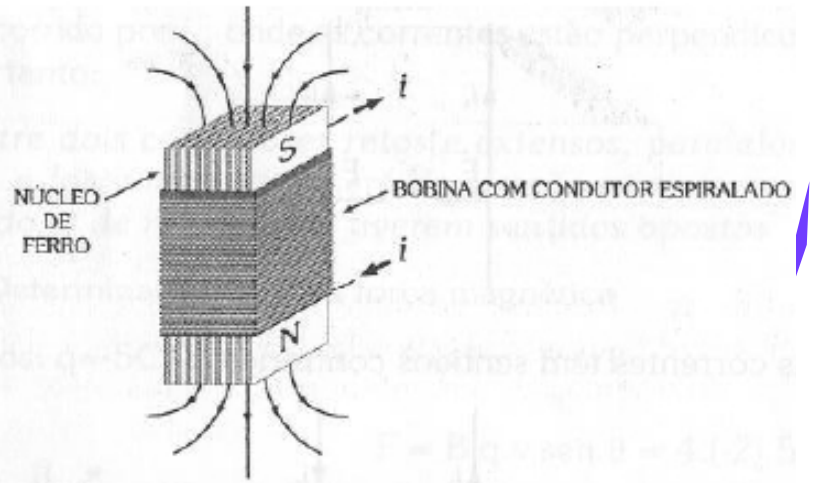
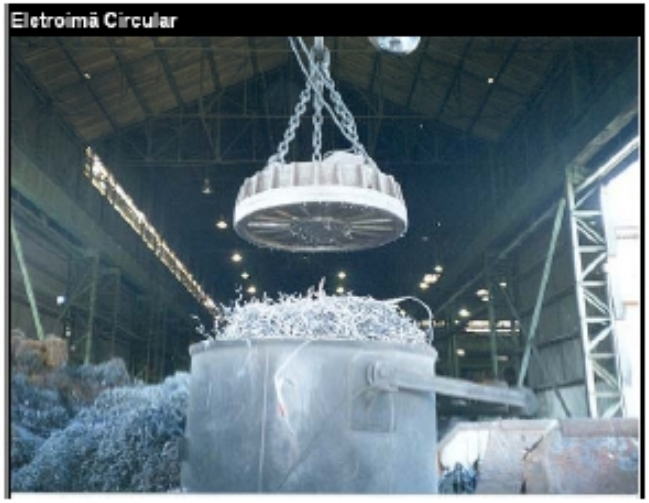
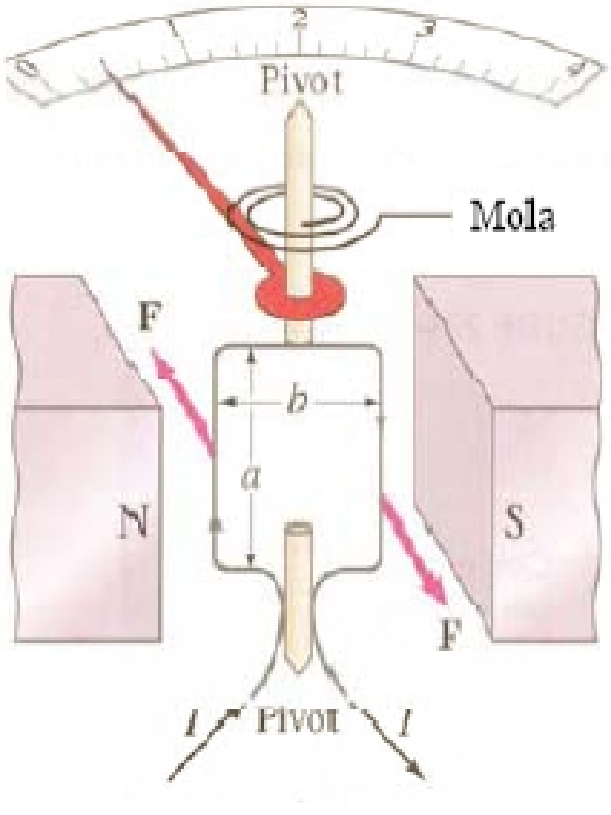
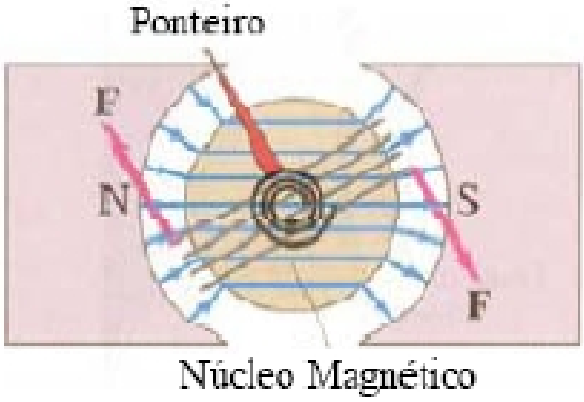

i
S
NÚCLEO
DE
FERRO
BOBINA COM CONDUTOR ESPIRALADO
i
N


Eletroimã Circular

AMPERÍMETRO

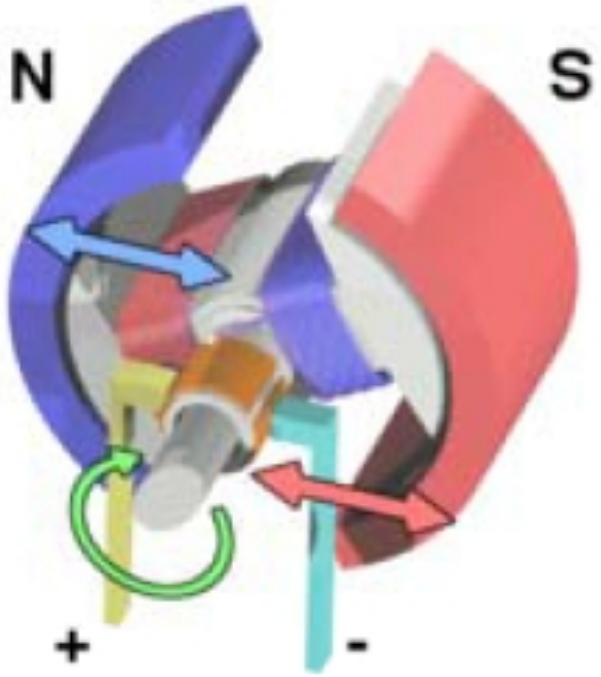


(a)

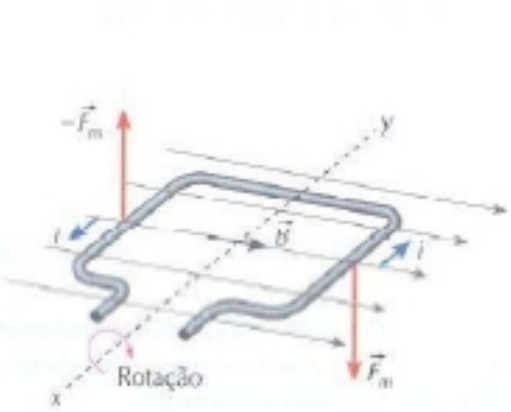


(b)

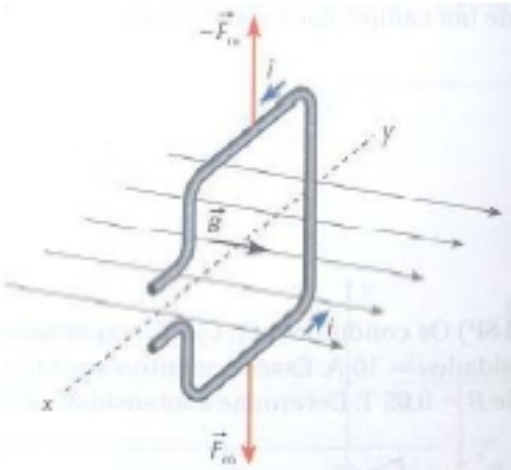
MOTOR DE CORRENTE CONTÍNUA



Construção de um motor CC

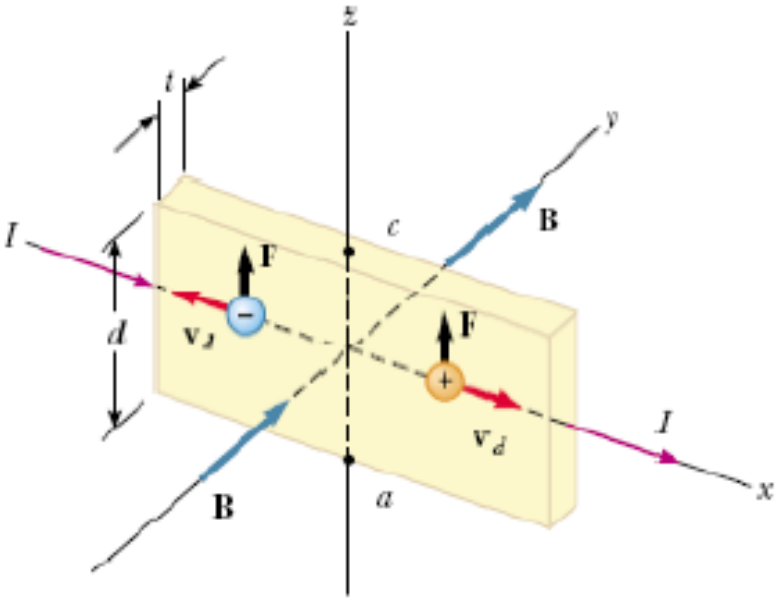


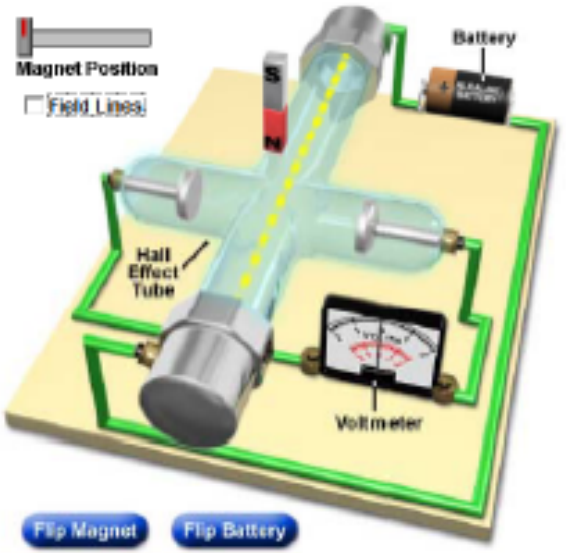
Momento de rotação máximo.



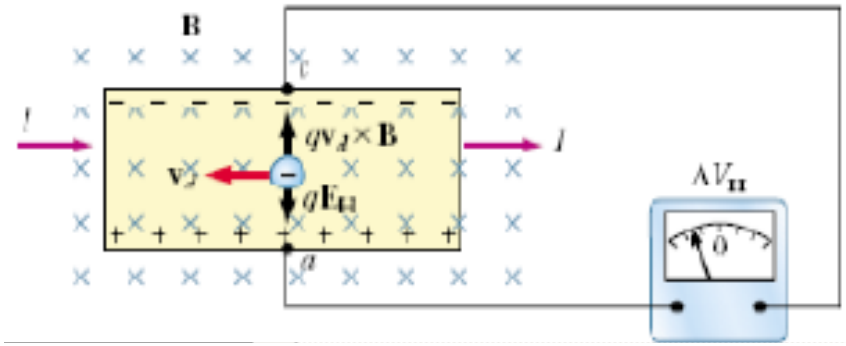
Momento de rotação nulo.

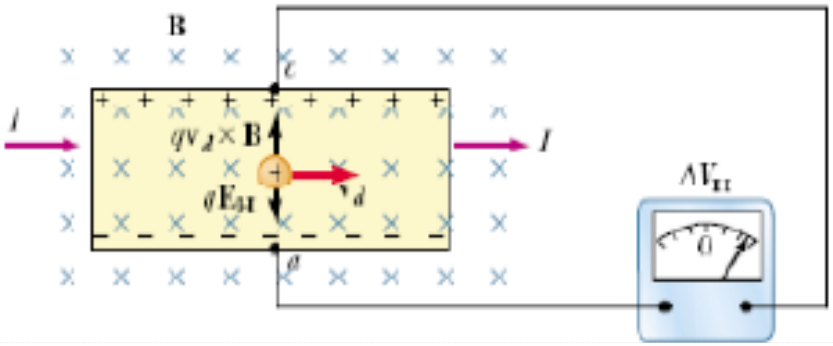
SENSOR DE EFEITO HALL





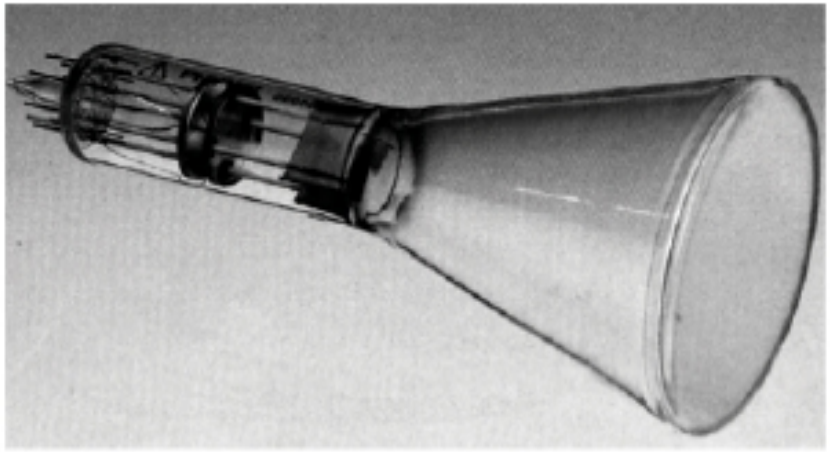
Semicondutor que gera uma tensão elétrica sob o efeito de um campo magnético.

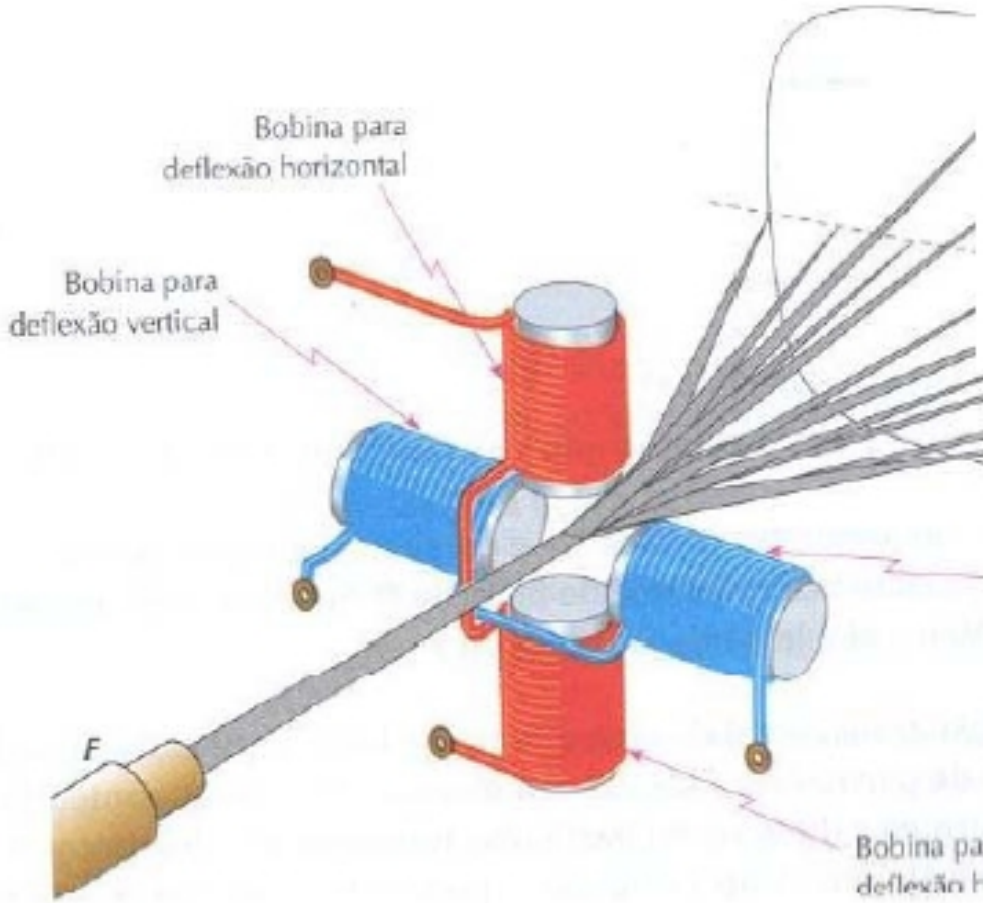




Medir a Fmag ou a I.

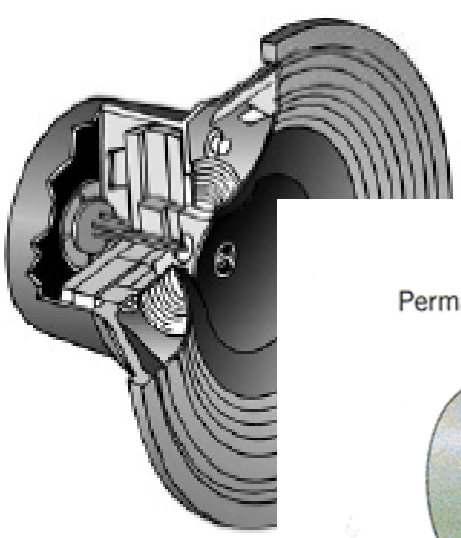
TUBO DE RAIOS CATÓDICOS

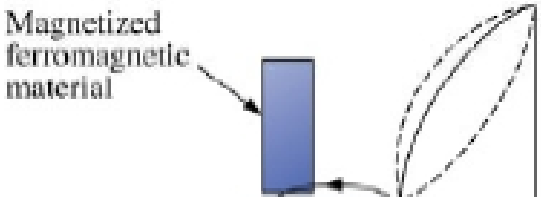


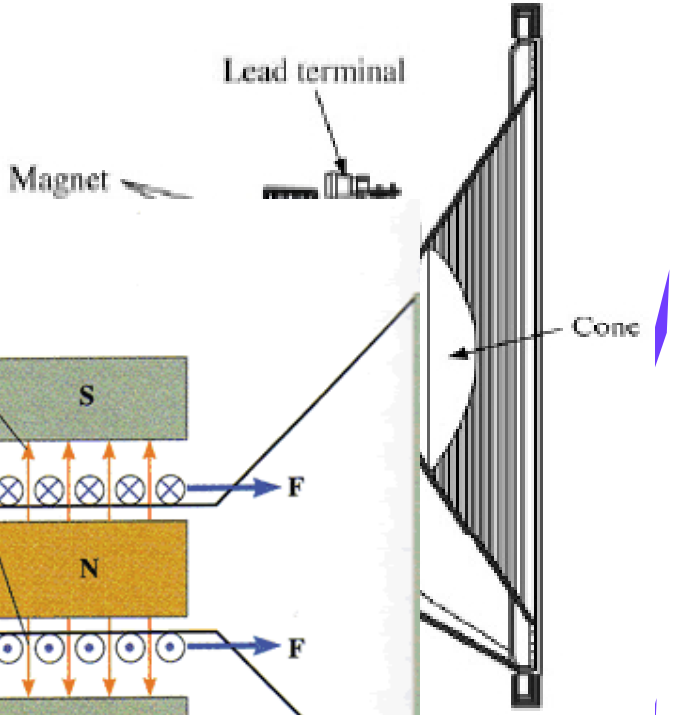


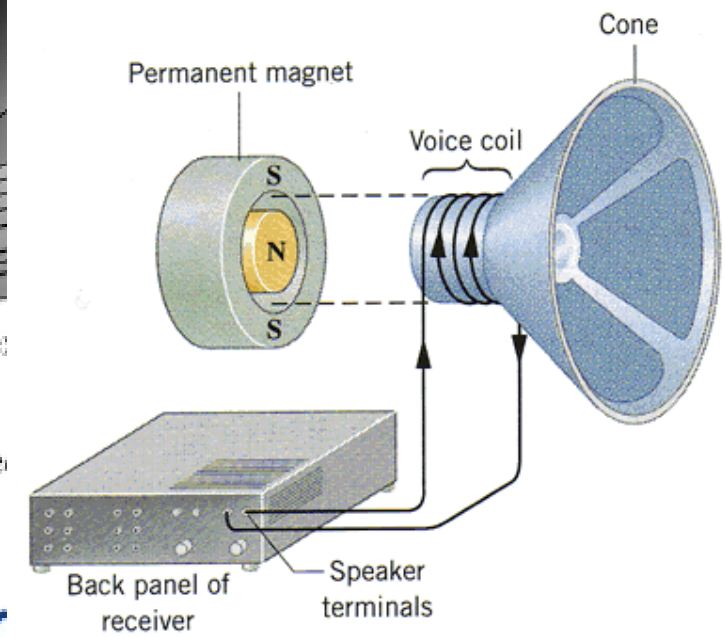
http://www.williamson-labs.com/scope1.htm

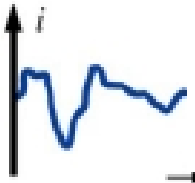
ALTO-FALANTE

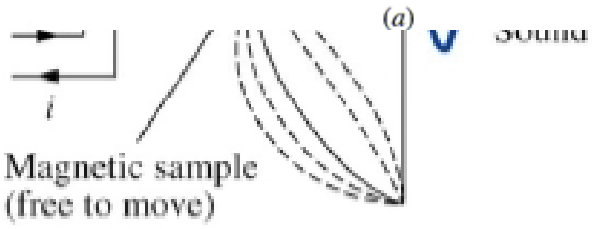


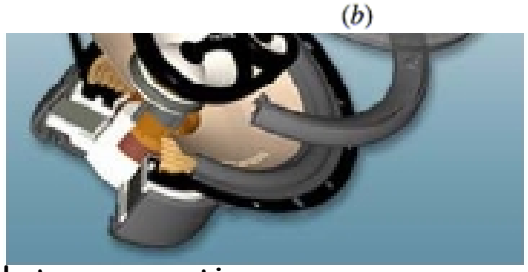






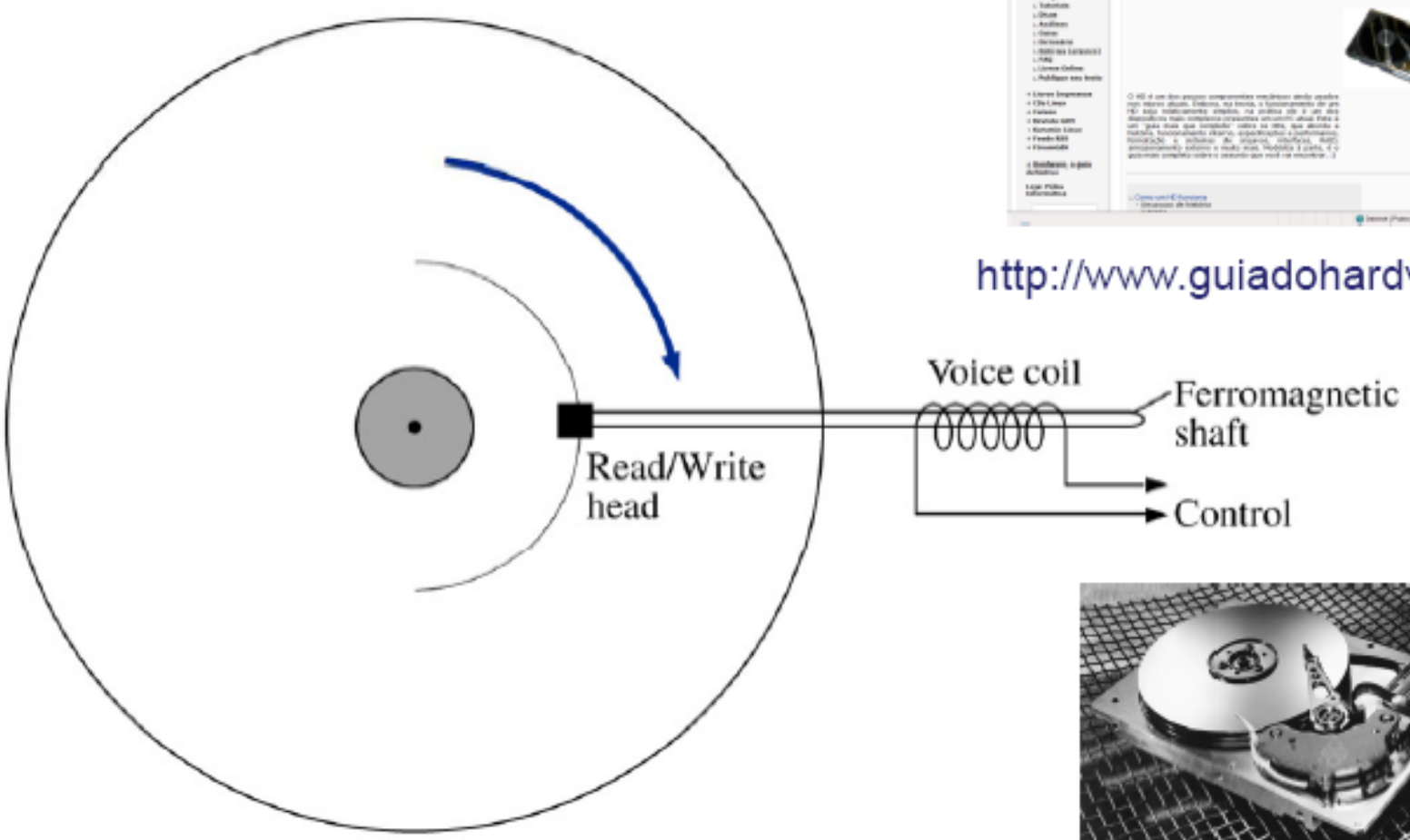




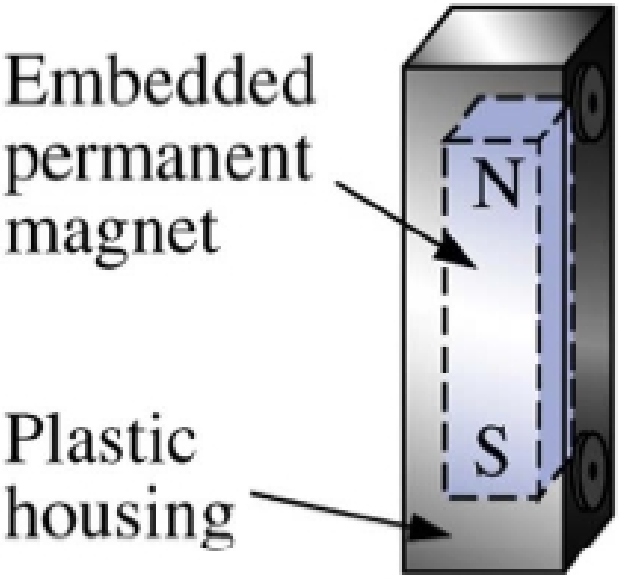


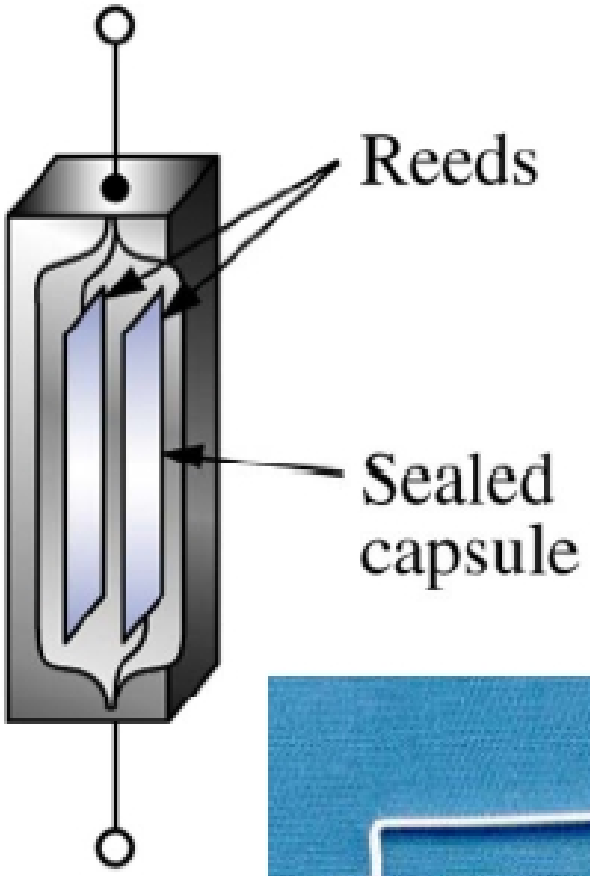
DISCO RÍGIDO (HD)

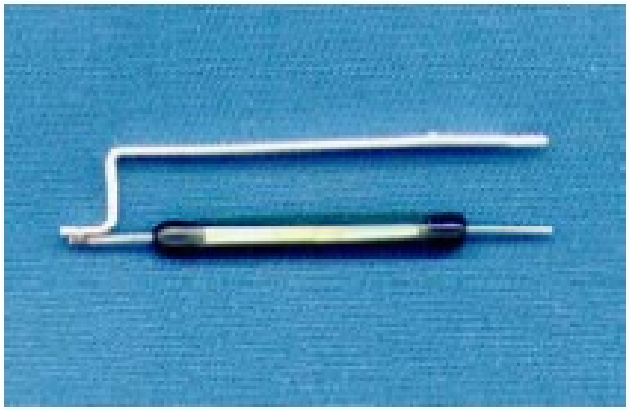
http://www.guiadohardware.net/



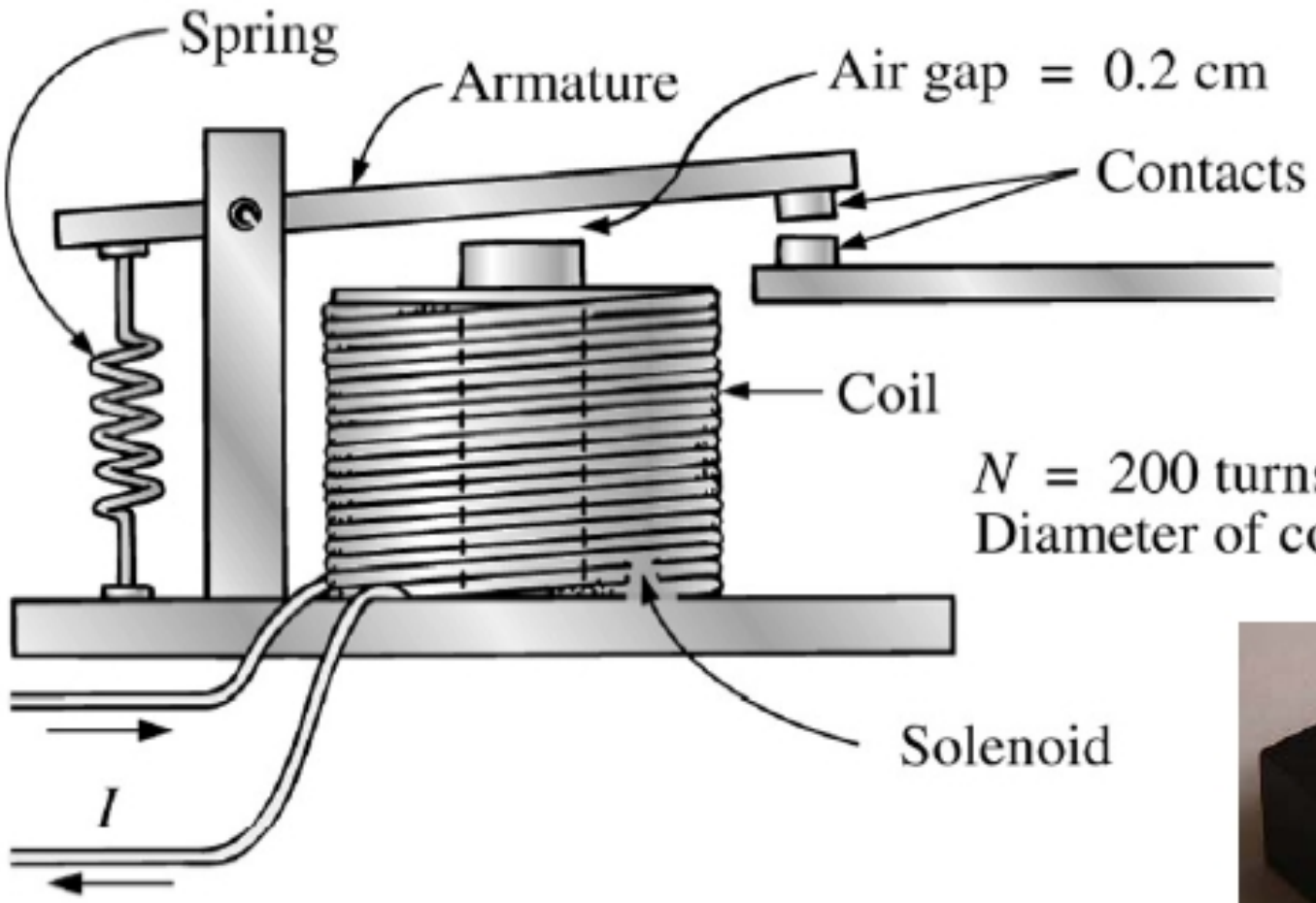
SENSOR MAGNÉTICO (reed-switch)

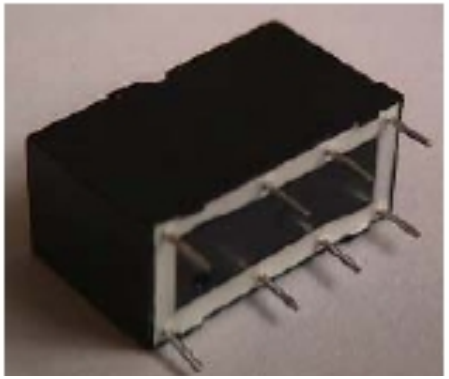




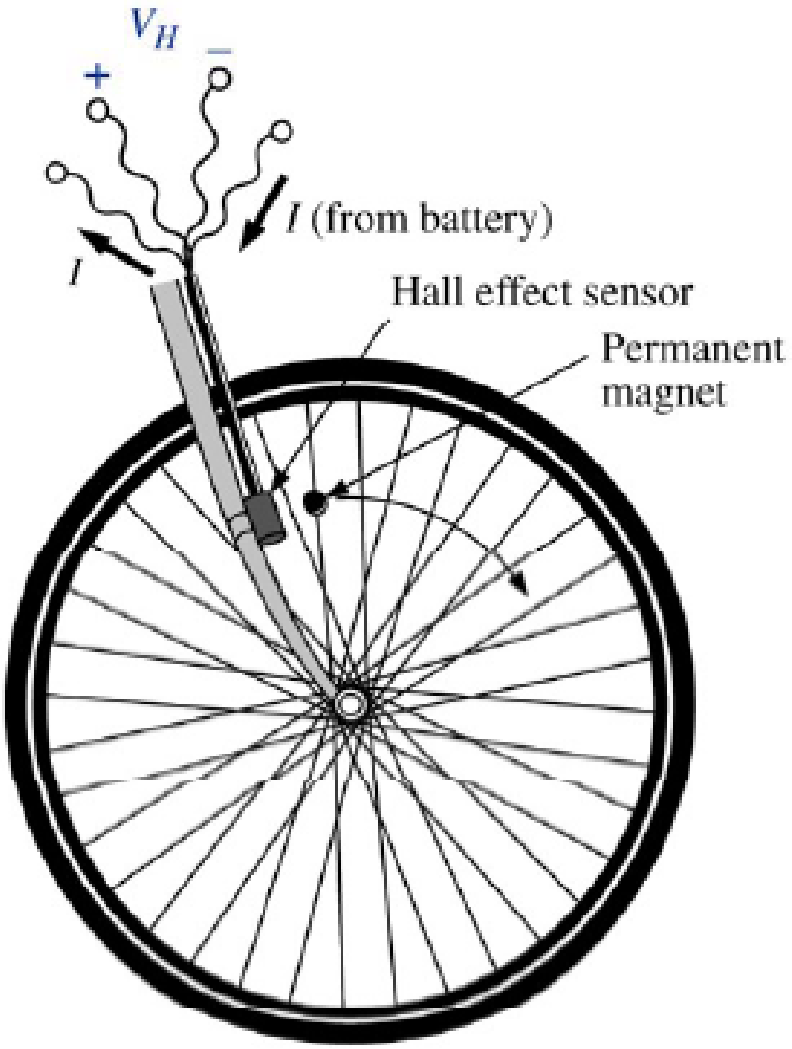


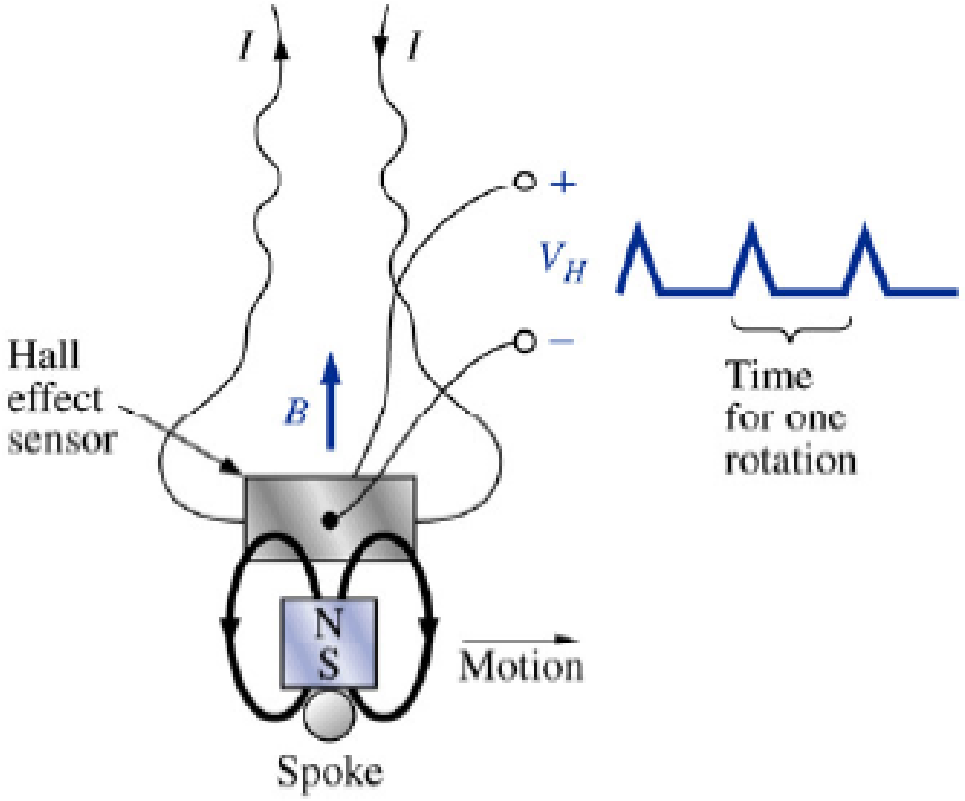
RELÉ


Spring
Armature
Air gap = 0.2 cm
Contacts
Coil
N = 200 turns
Diameter of core = 0.01 m
Solenoid
I



INDICADOR DE VELOCIDADE





EXERCÍCIO

Com base nas aplicações anteriores, **LISTE DIFERENTES** equipamentos que você possui em sua **CASA**, que existem na **RUA** e/ou em seu **SERVIÇO**, que utilizam os conceitos do eletromagnetismo para o seu funcionamento.