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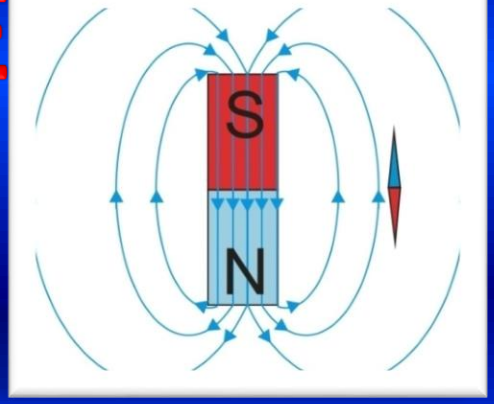
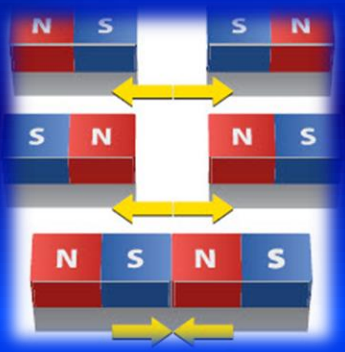
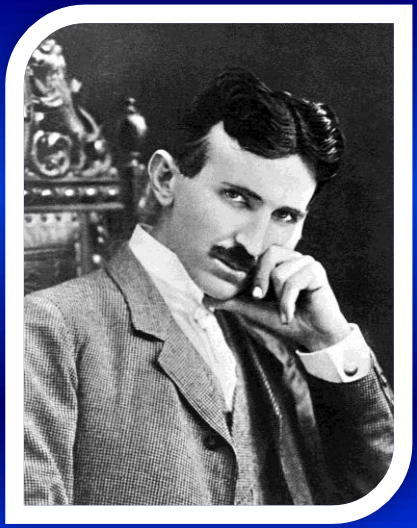
MAGNETNO POLJE

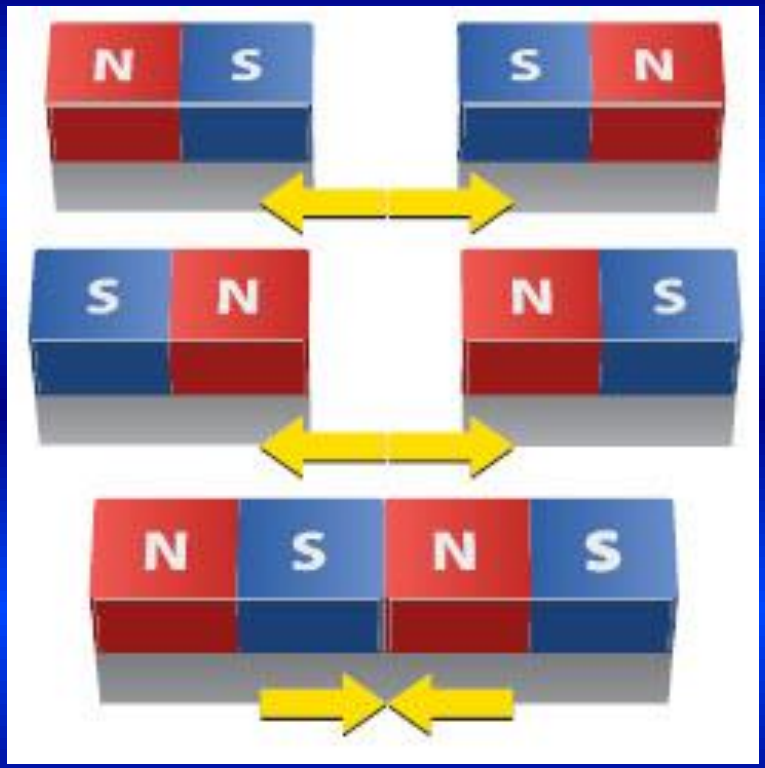




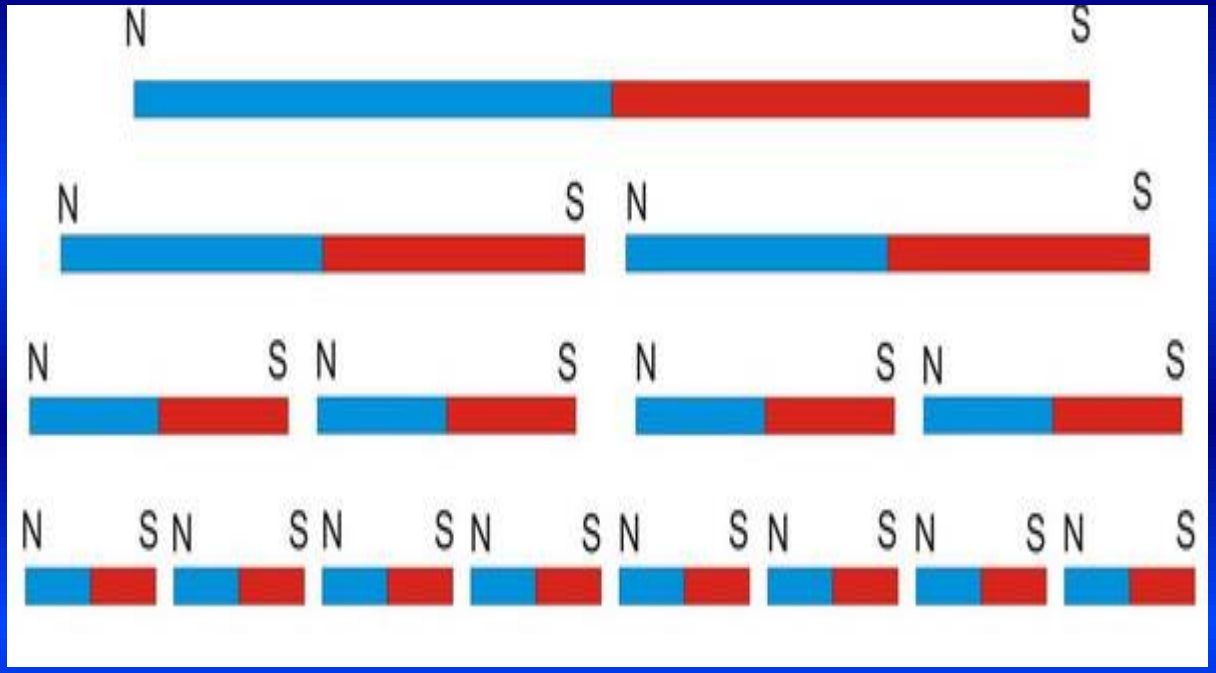


Goran Ivković, profesor fizike

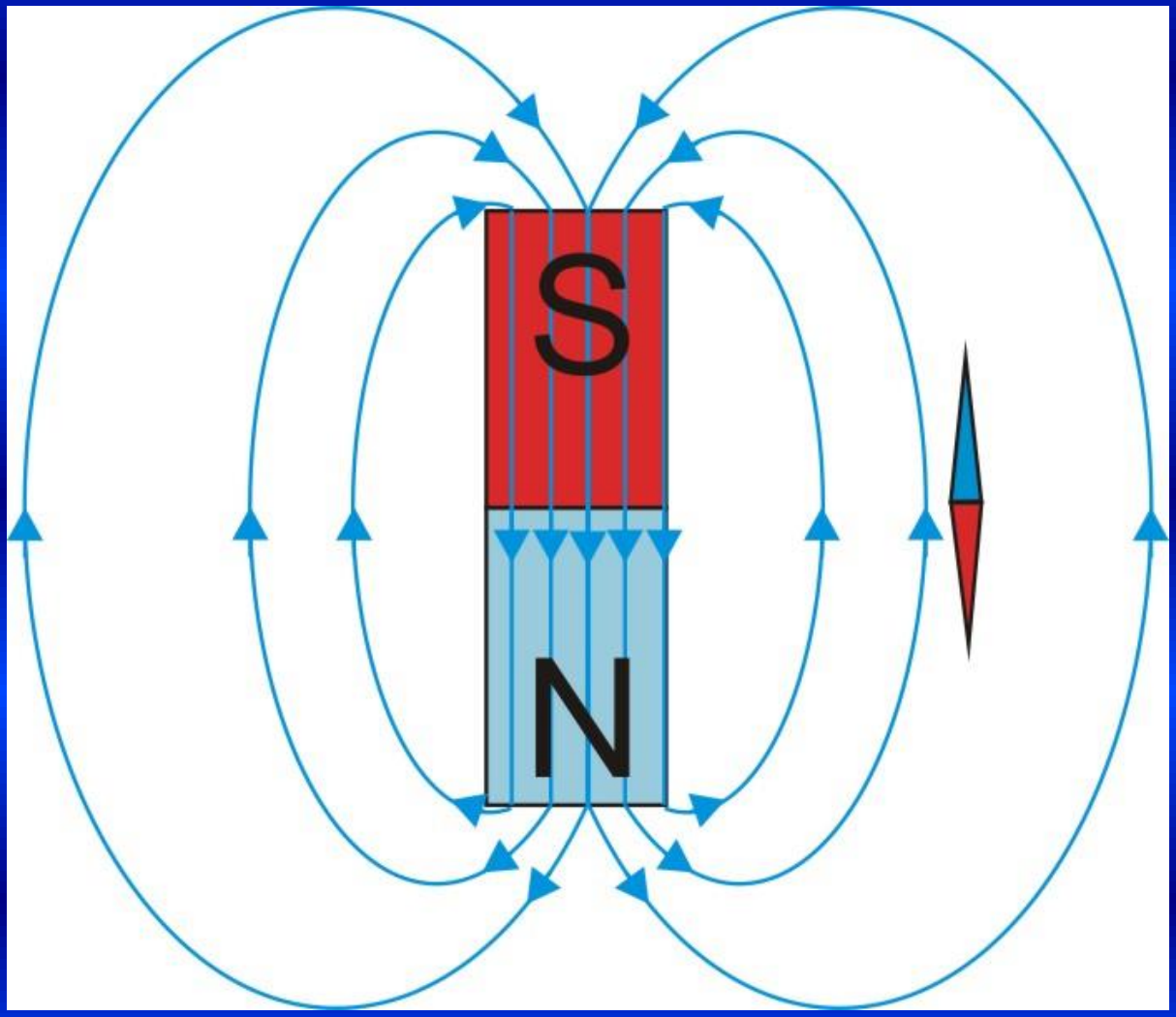
MAGNETI



MAGNETI

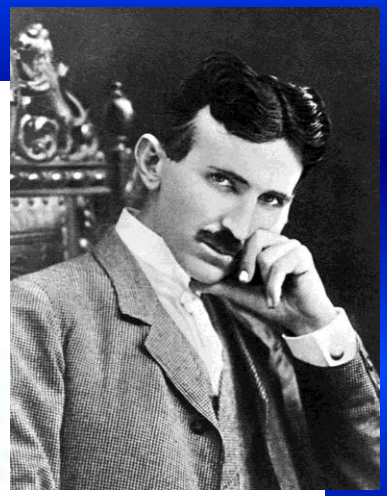


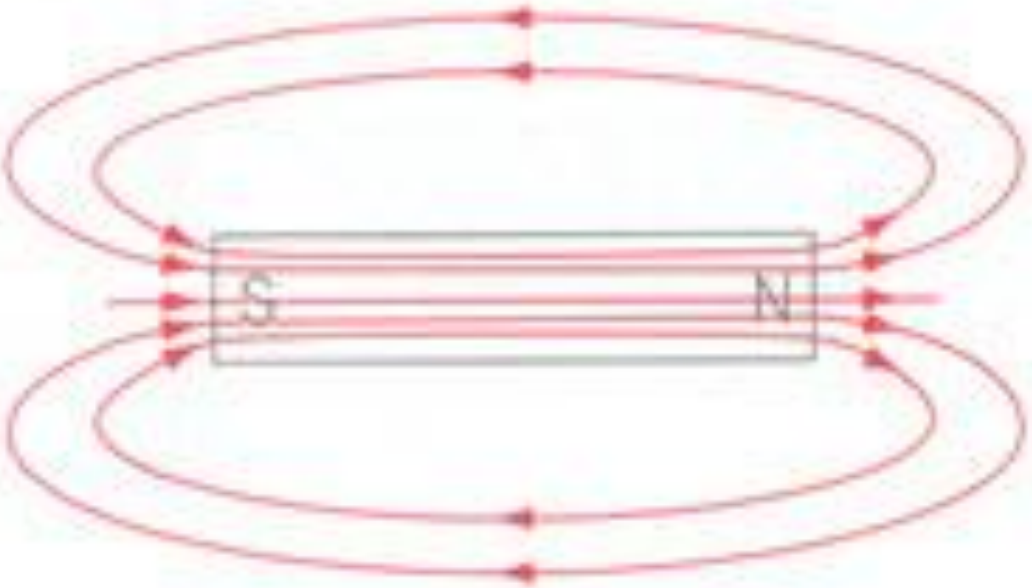
Magnetno polje stalnih magneta



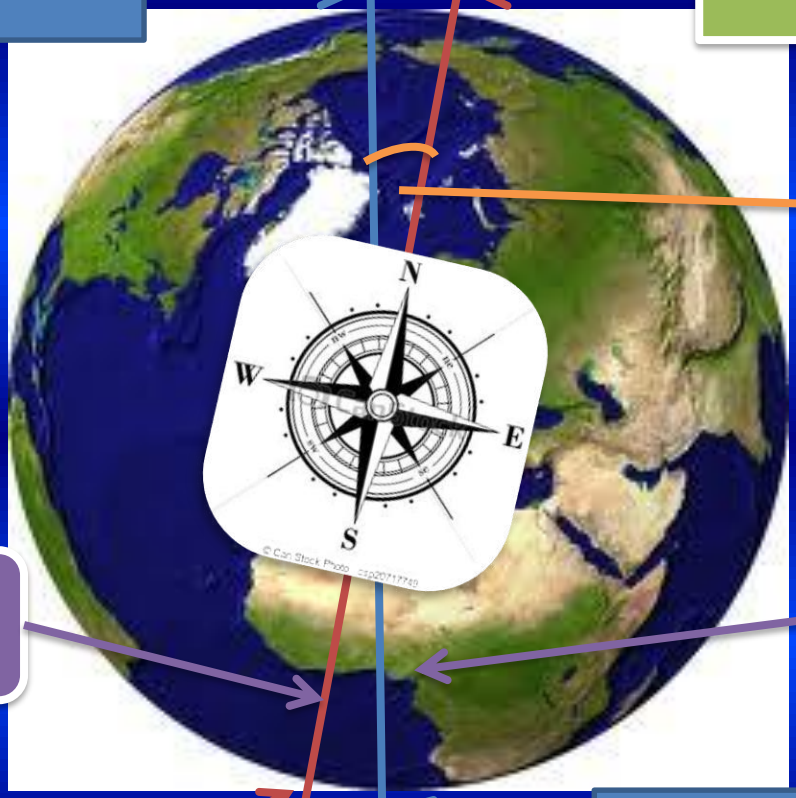
Magnetno polje stalnih magneta

B – magnetna indukcija (T)





Zemlja je jedan veliki magnet



Severni geografski pol

Južni fizički pol S

DEKLINACIJA

MAGNETNA OSA

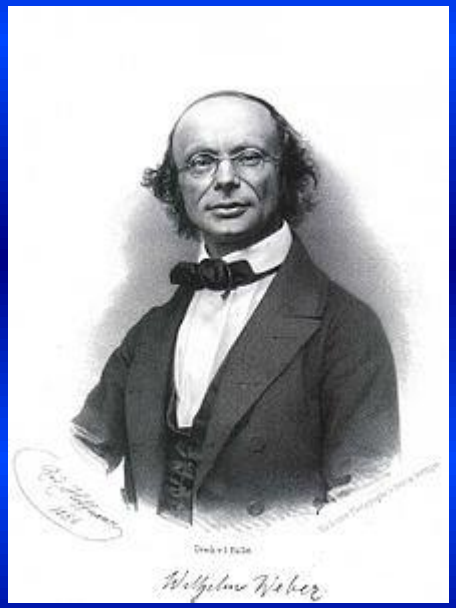
OSA ROTACIJE

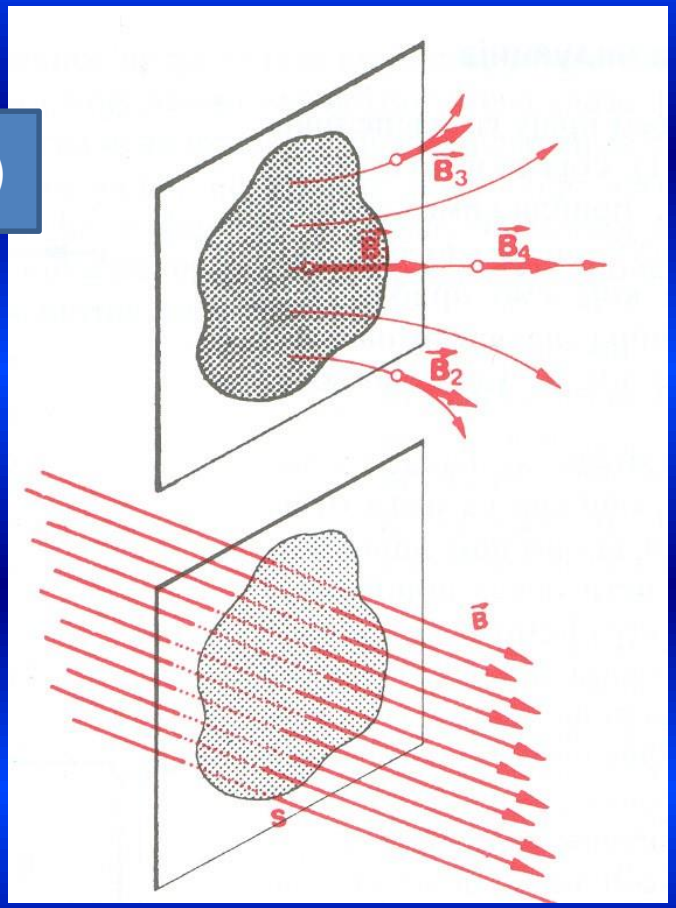
Severni fizički pol N

Južni geografski pol

MAGNETNI FLUKS

Φ – magnetni fluks (Wb)





Veza između magnetne idukcije i magnetnog fluksa

Φ – magnetni fluks (Wb)

B – magnetna indukcija (T)

POVRŠINA

za kvadrat je:

$S = a \cdot a$

za pravougaonik je:

$S = a \cdot b$

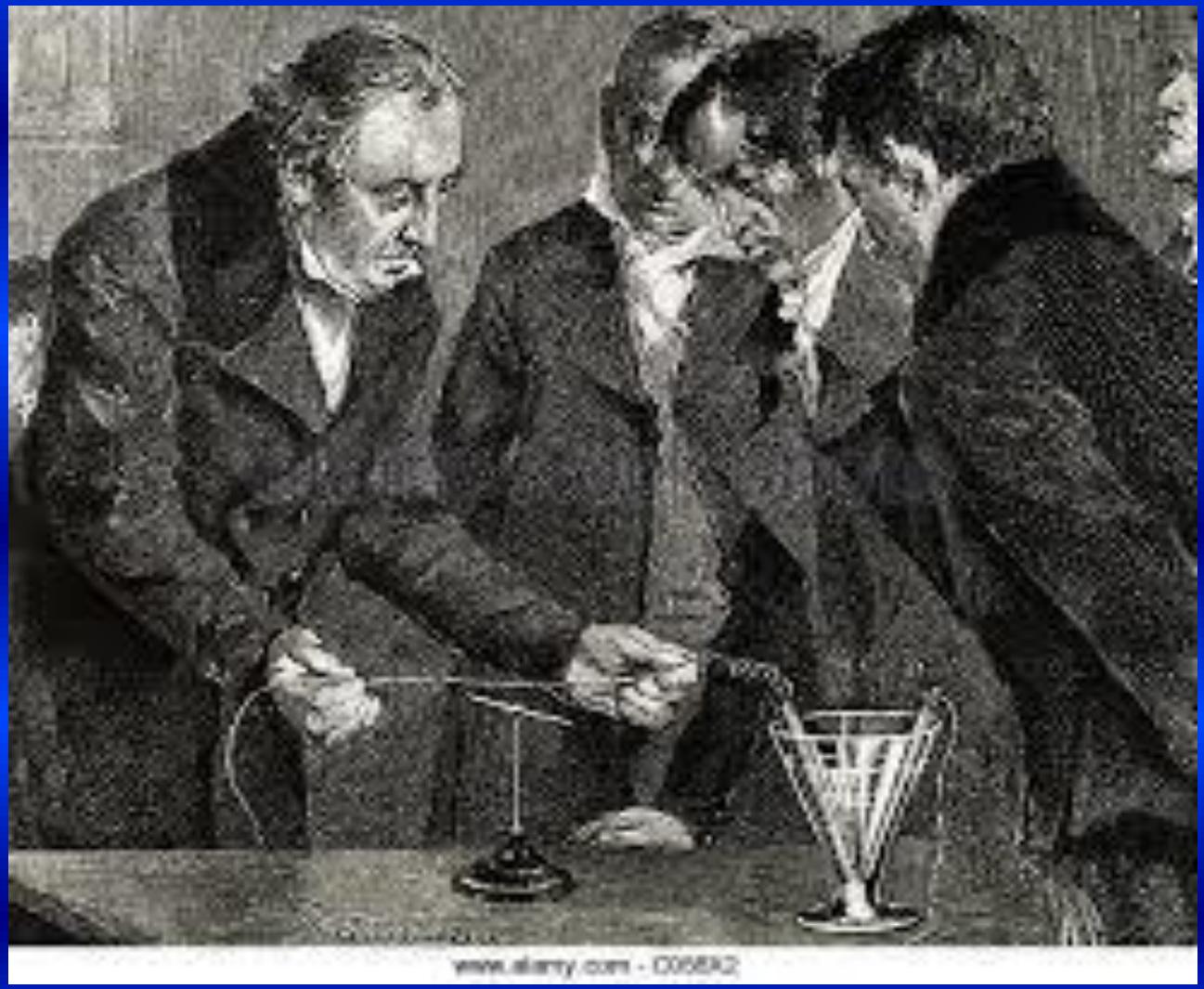
za krug je:

$S = r^2 \pi$

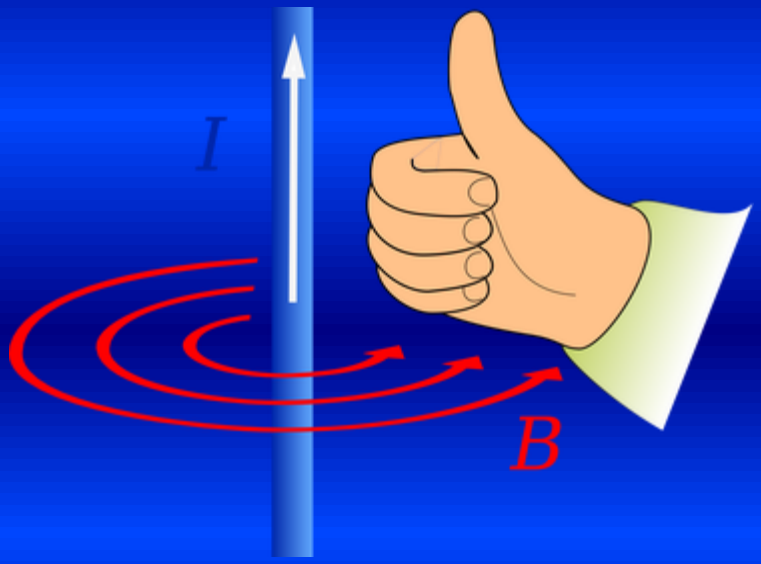
$$B = \frac{\Phi}{S}$$

$$1\mathrm{T} = \frac{1\,Wb}{1m^2}$$

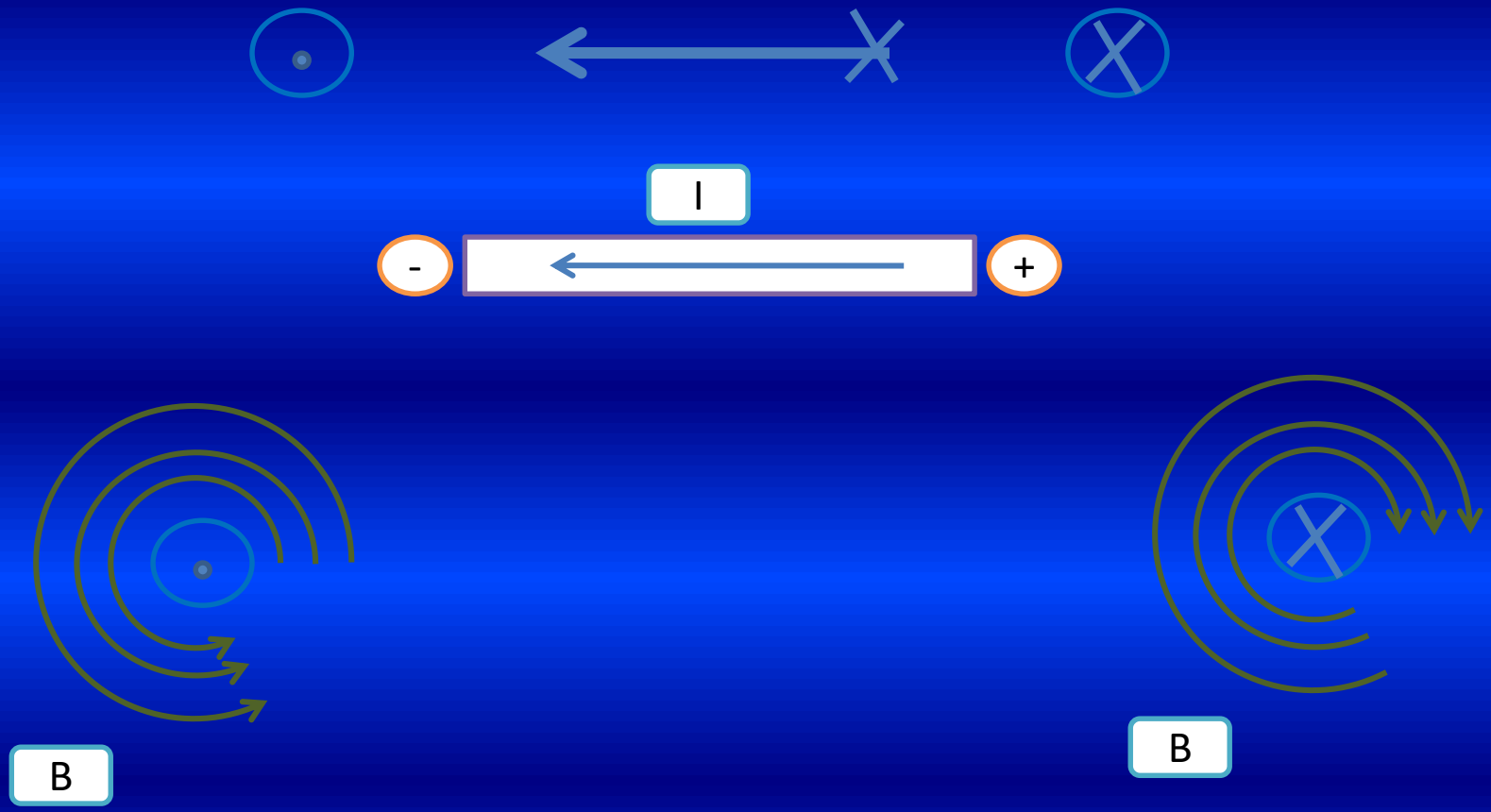
Magnetno polje strujnog provodnika



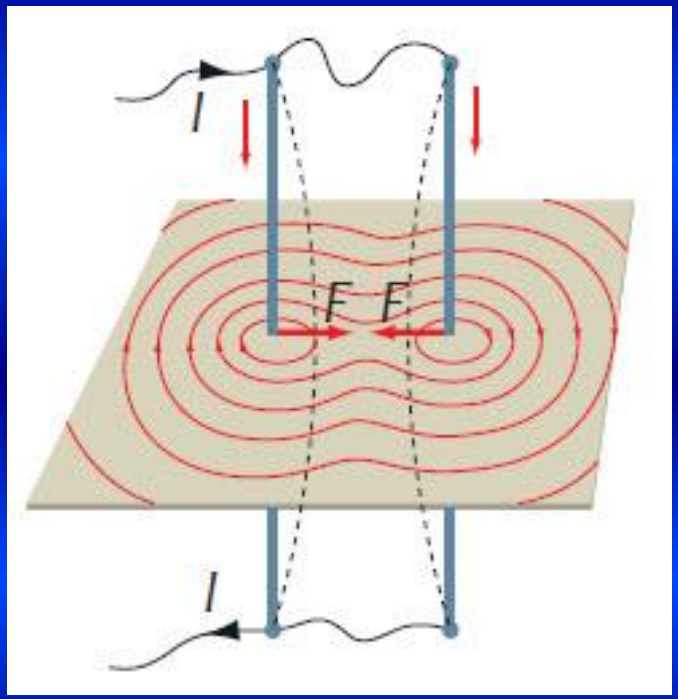
Magnetno polje strujnog provodnika

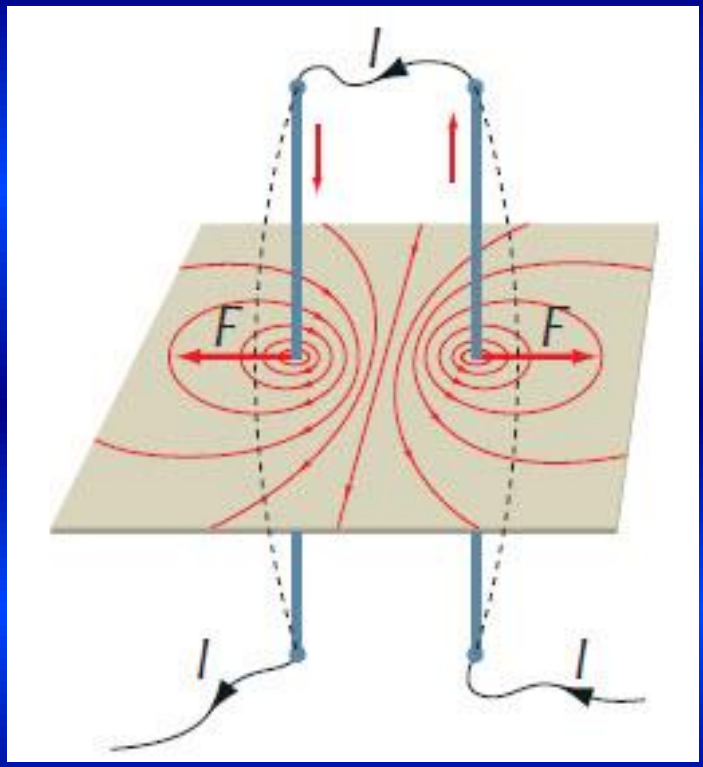


Magnetno polje strujnog provodnika



Magnetno polje strujnog provodnika

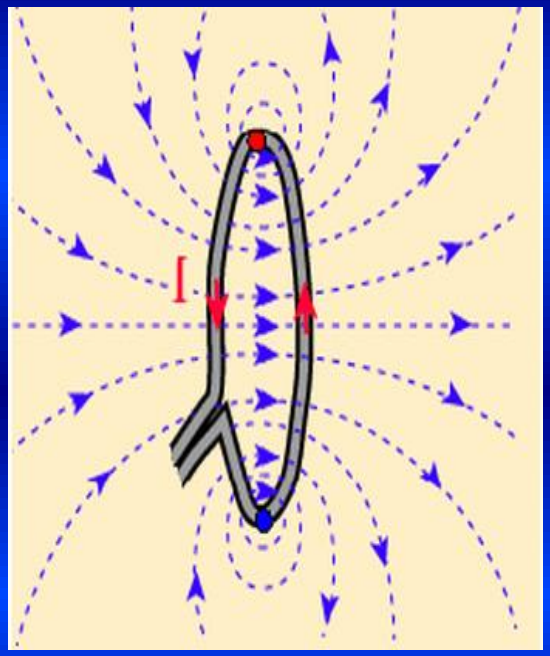




Magnetno polje strujnog provodnika

- Magnetni dipol

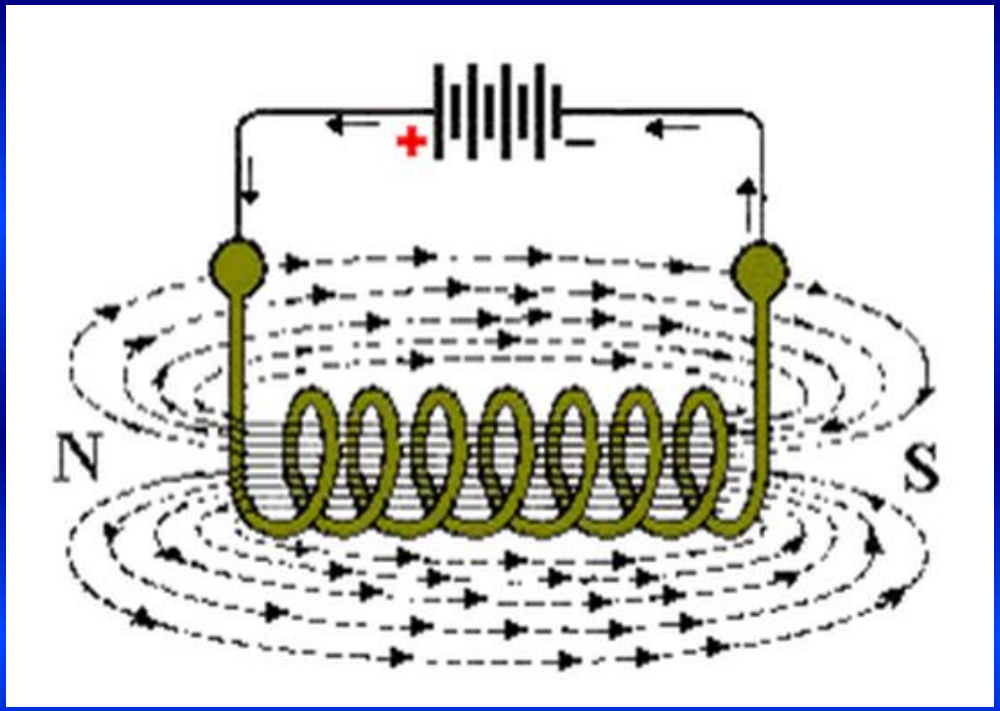
S



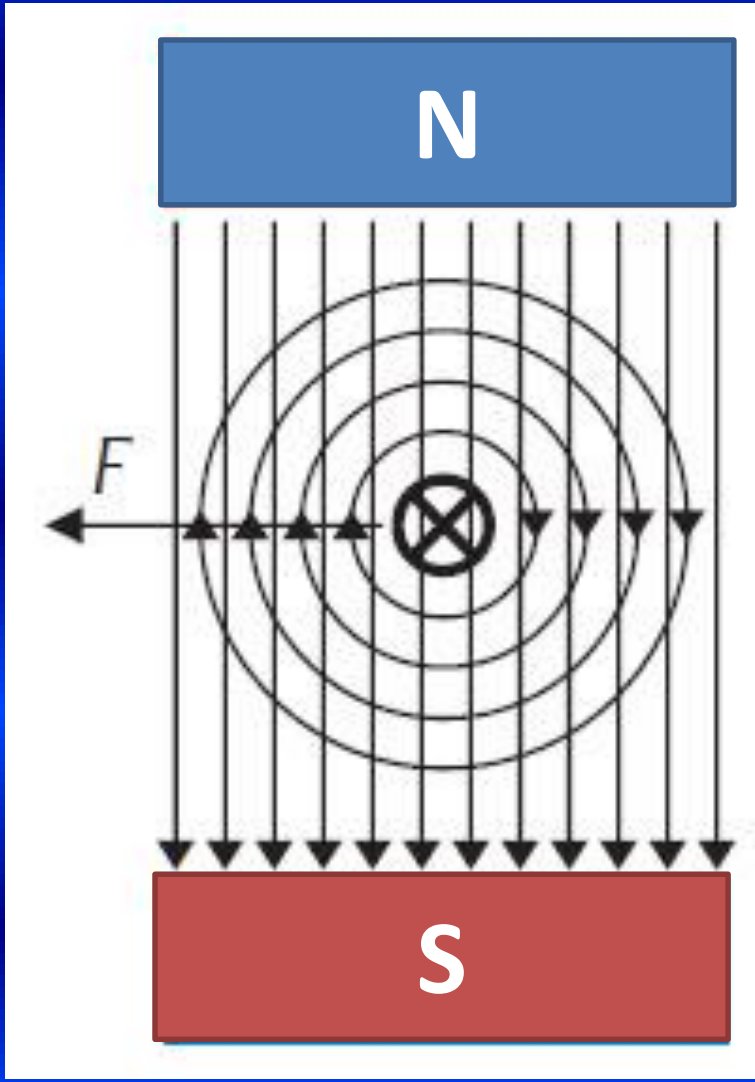
N

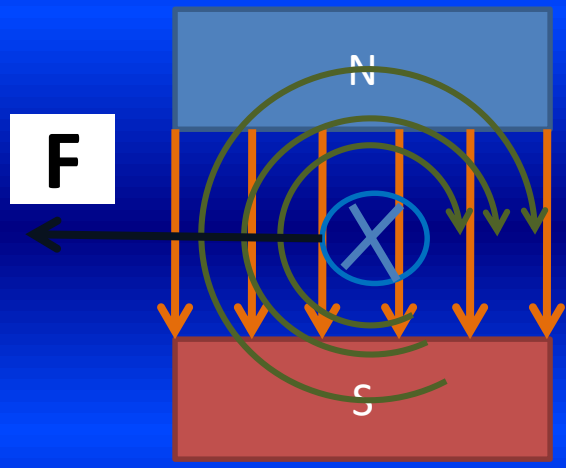
Magnetno polje strujnog provodnika

- Solenoid



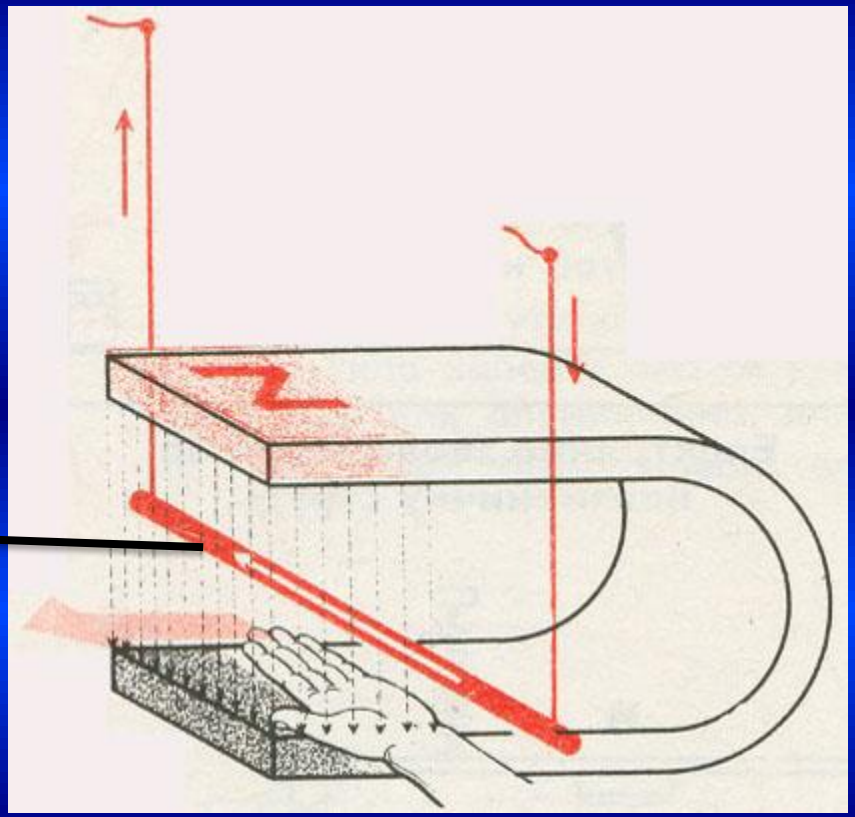
Dejstvo magnetnog polja na strujni provodnik



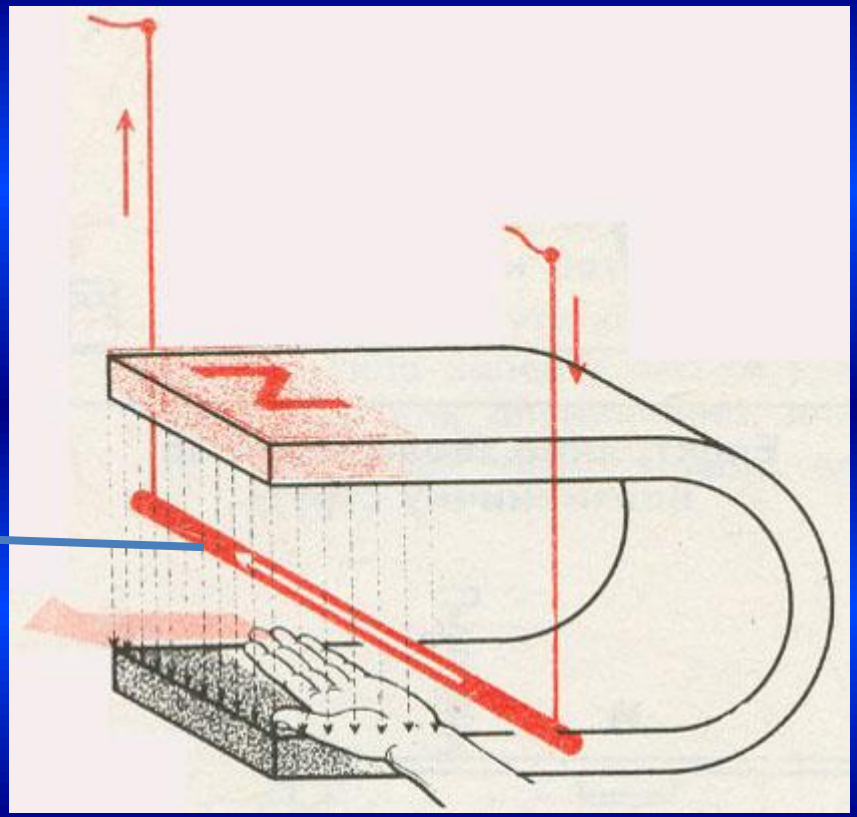


Dejstvo magnetnog polja na strujni provodnik

F



Dejstvo magnetnog polja na strujni provodnik



F

$$F = B \cdot I \cdot l$$

F – Sila (N)
B – Magnetna indukcija (T)
I – Jačina struje (A)
l - dužina strujnog provodnika koji se nalazi u magnetnom polju (m)