C.L. Ing. Elettrica - C.L. Ing. Elettronica
ELETTROTECNICA

COMPITO DEL 28 APRILE 2008

1) Calcolare le tensioni V_{AB} e V_{BC} utilizzando il teorema di Thevenin.
$\left\langle \dot{V}_{AB} = 78.78 + j\,41.40\ V;\ \dot{V}_{BC} = 11.62 + j\,16.16\ V \right\rangle$

$R = 60\Omega,\quad R_1 = 80\Omega,\quad X = 100\Omega,\quad X_1 = -40\Omega,\quad \dot{E}_1 = 200\,V$ (terna simmetrica diretta).

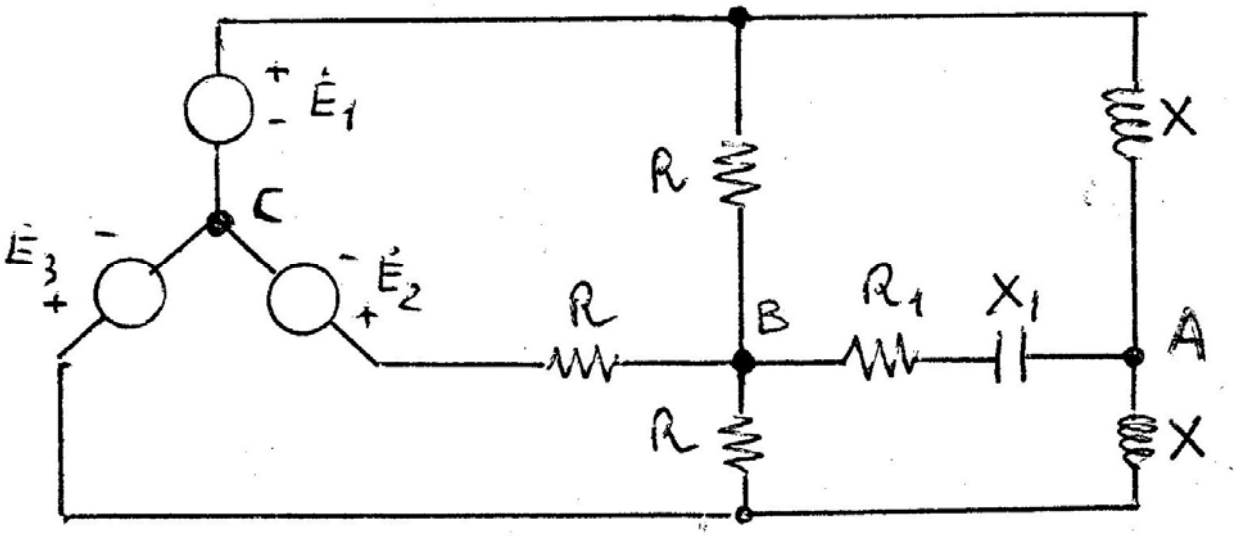

fig. 1

2) Calcolare il campo magnetico al traferro.
$\left\langle \left|\vec{H}\right| = 8\cdot 10^6\ \mathrm{A/m} \right\rangle$

$a = 20\,cm,\quad S = 2\,cm^2,\quad \delta = 1\,mm,\quad \mu_r = 2000,\quad N_1 = 900,\quad N_2 = 50,\quad I = 20\,A.$

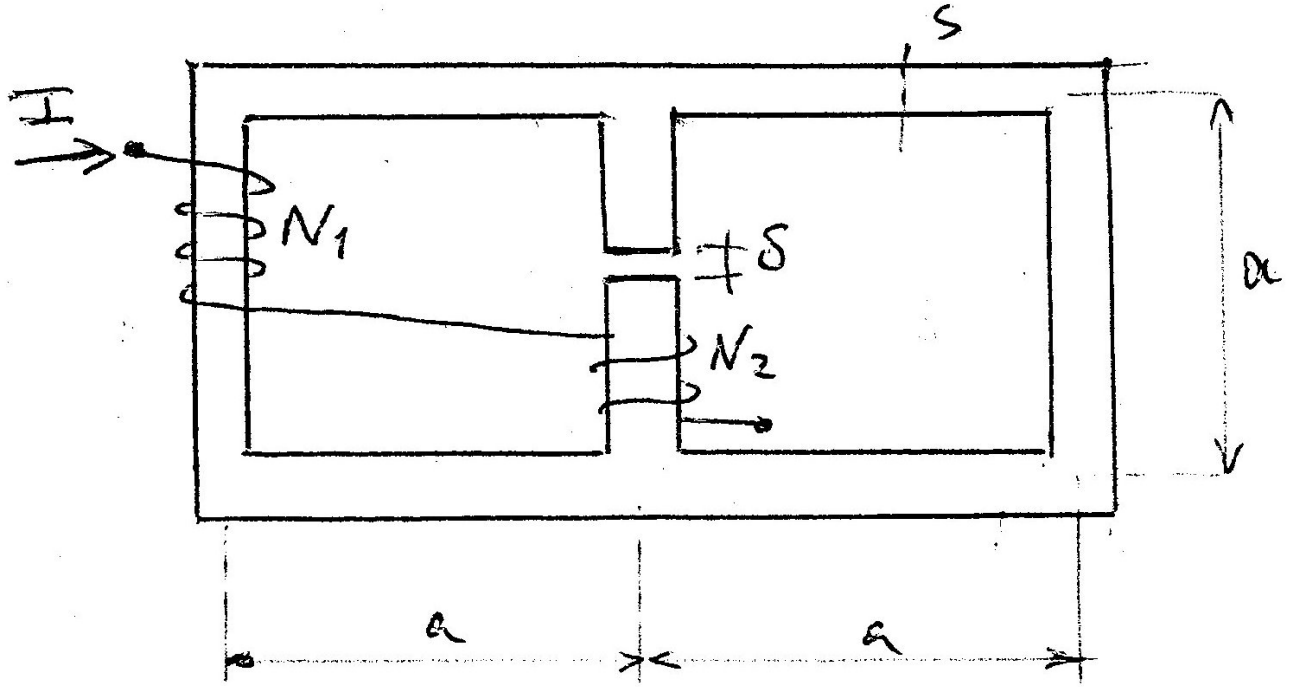

fig. 2