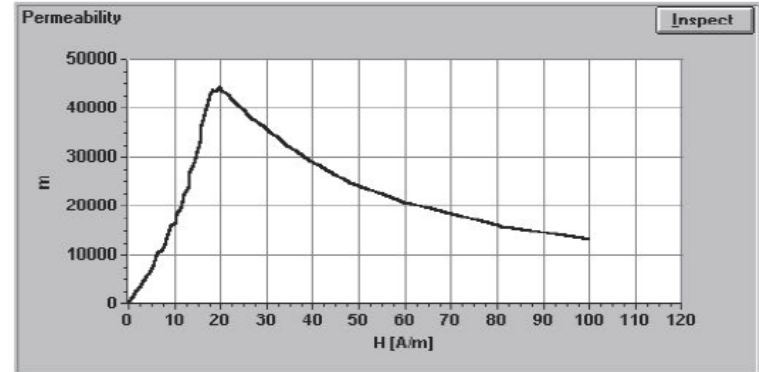
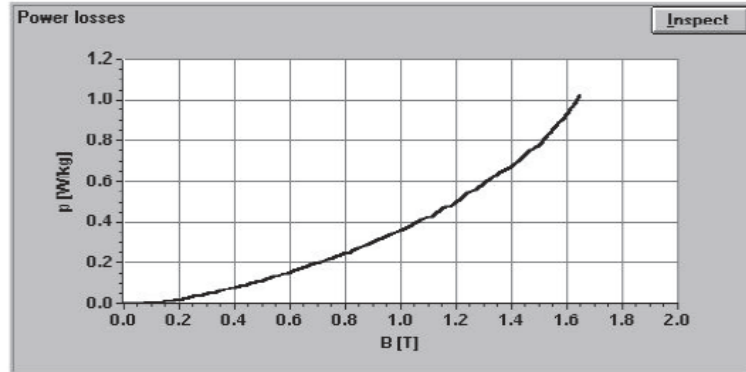
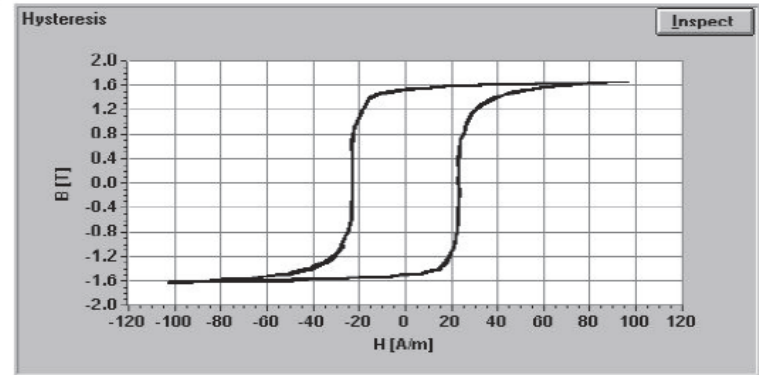
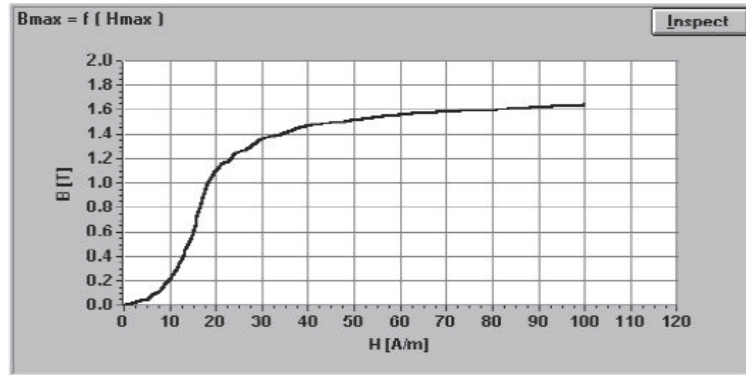
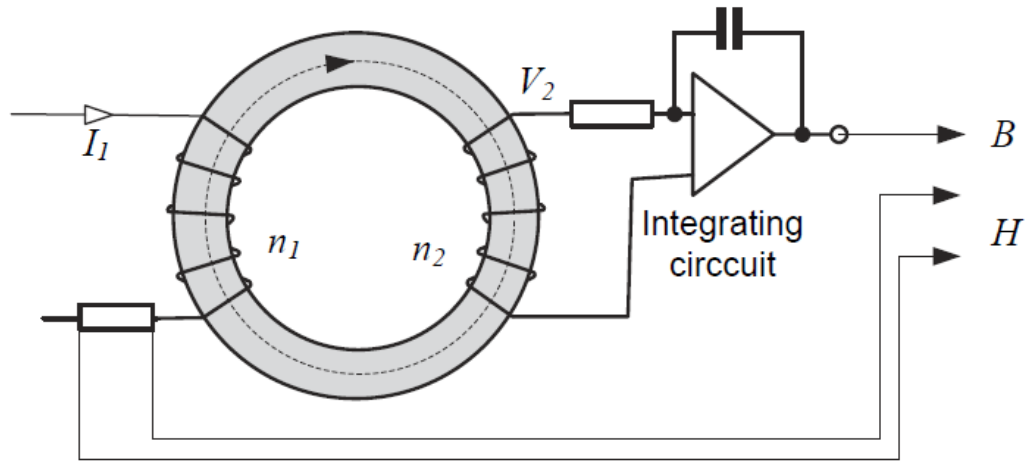


Badanie materiałów magnetycznych

Measure	Hmax [A/m] 99.762	Hc [A/m] 23.289	max permeability 44160.408	Data file hb.dat <input type="button" value="File"/>	<input type="button" value="Save"/>
Parameter	Bmax [T] 1.645	Br [T] 1.515	losses [W/kg] 0.380	Info Ready	
Analysis					



Badanie metoda pośrednią



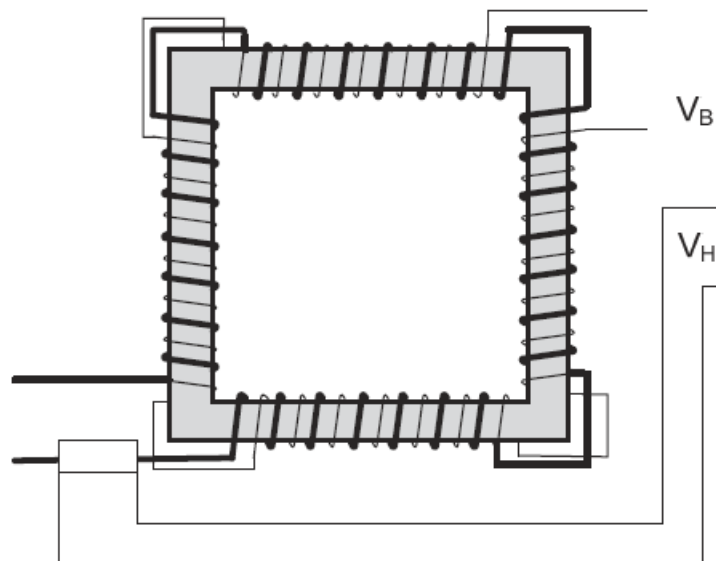
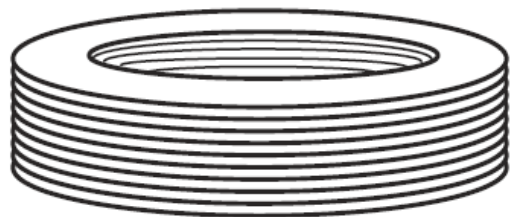
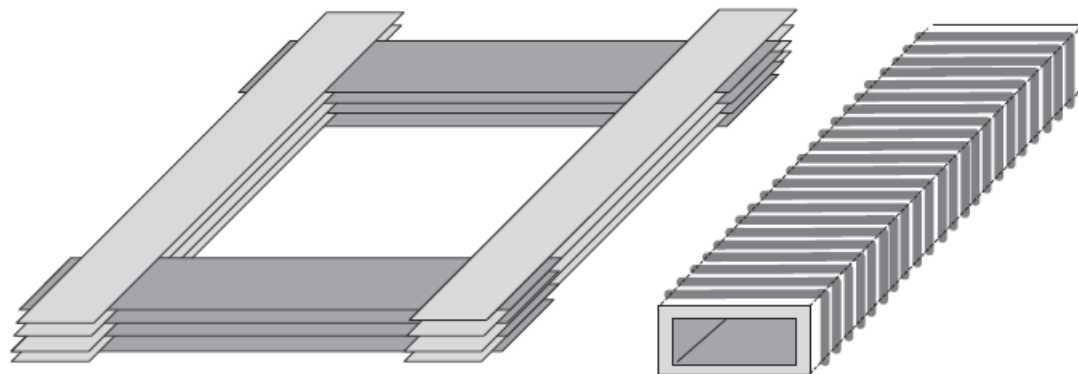
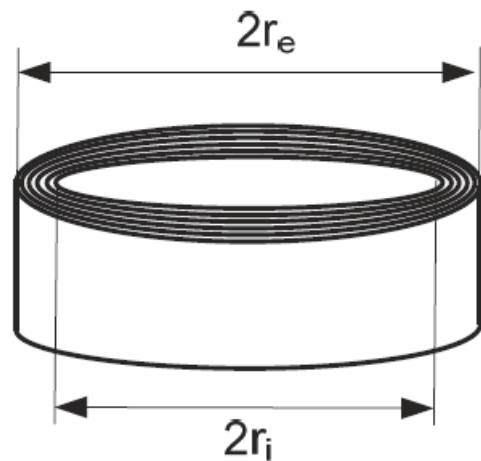
$$Hl = n_1 I_1$$

$$V_2 = n_2 A \frac{dB}{dt}$$

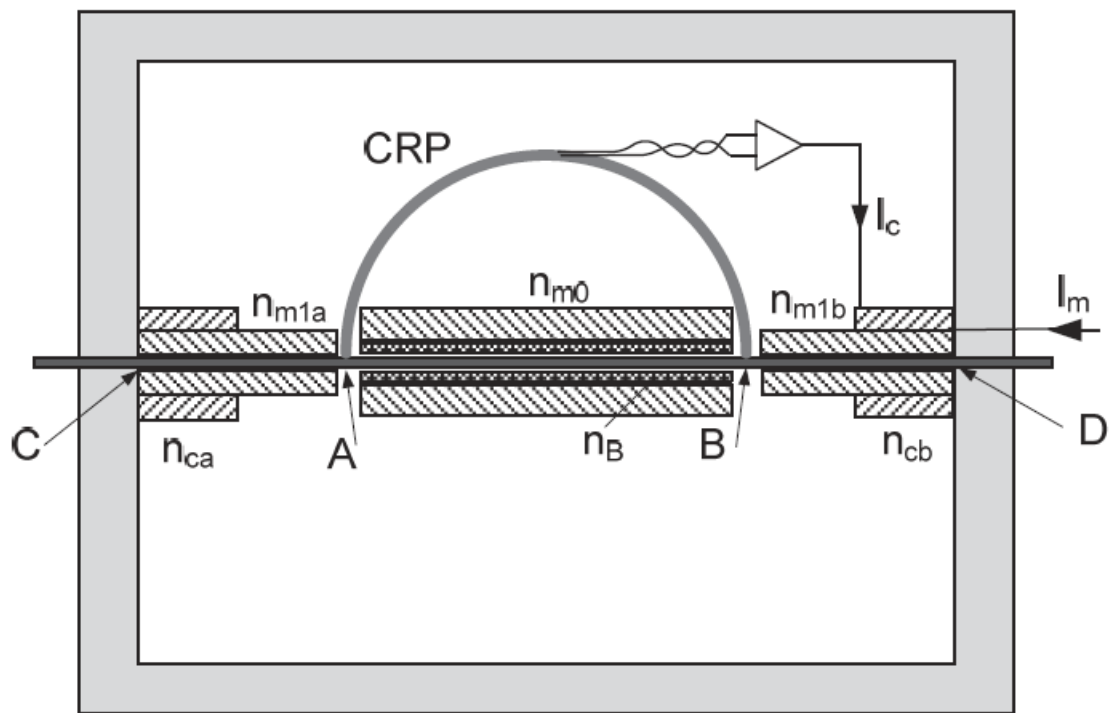
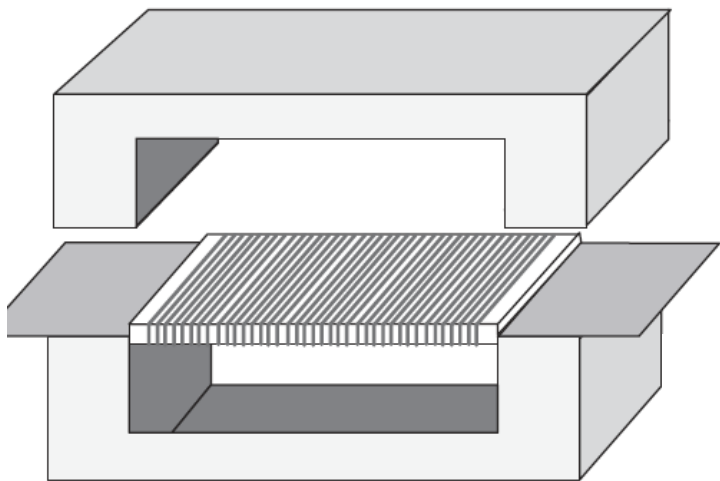
$$P = \frac{V}{T} \int_0^T H \frac{dB}{dt} dt$$

$$\mu = \frac{B}{H}$$

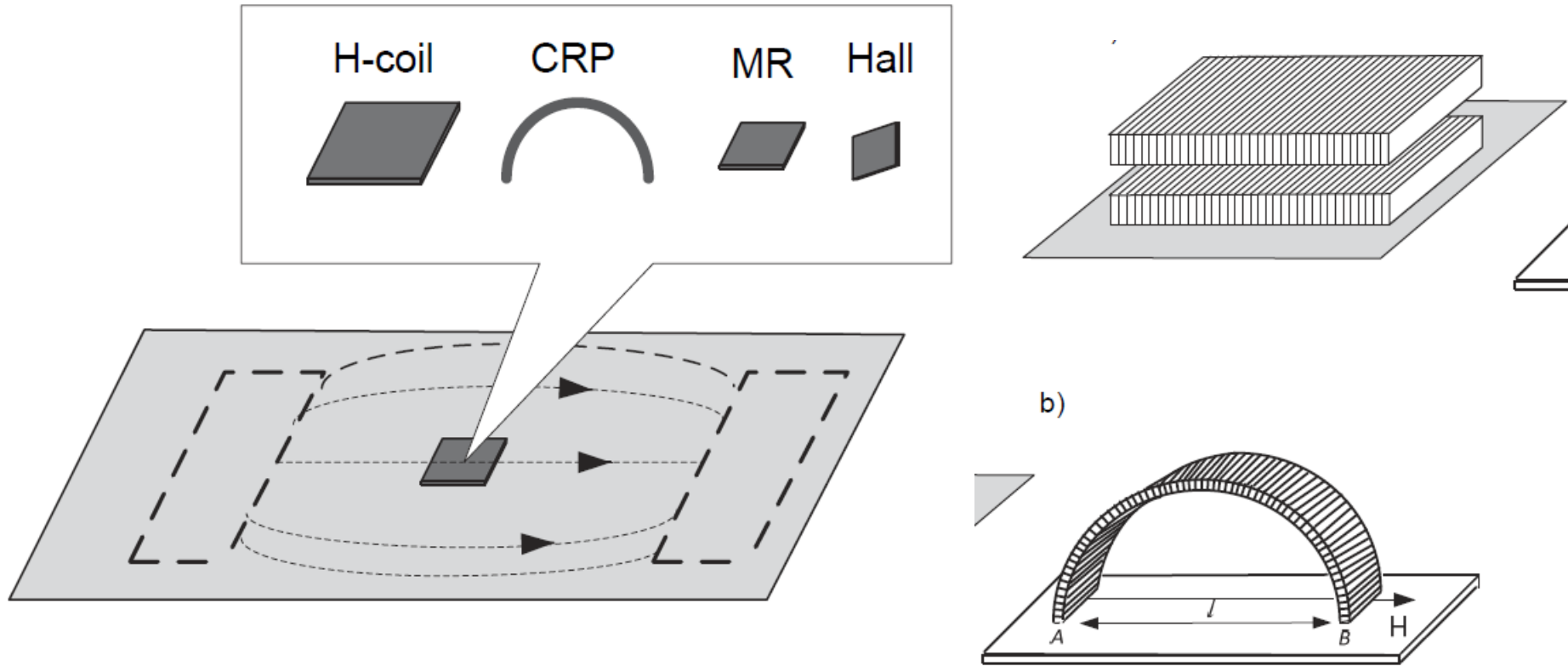
Obwody magnetyczne



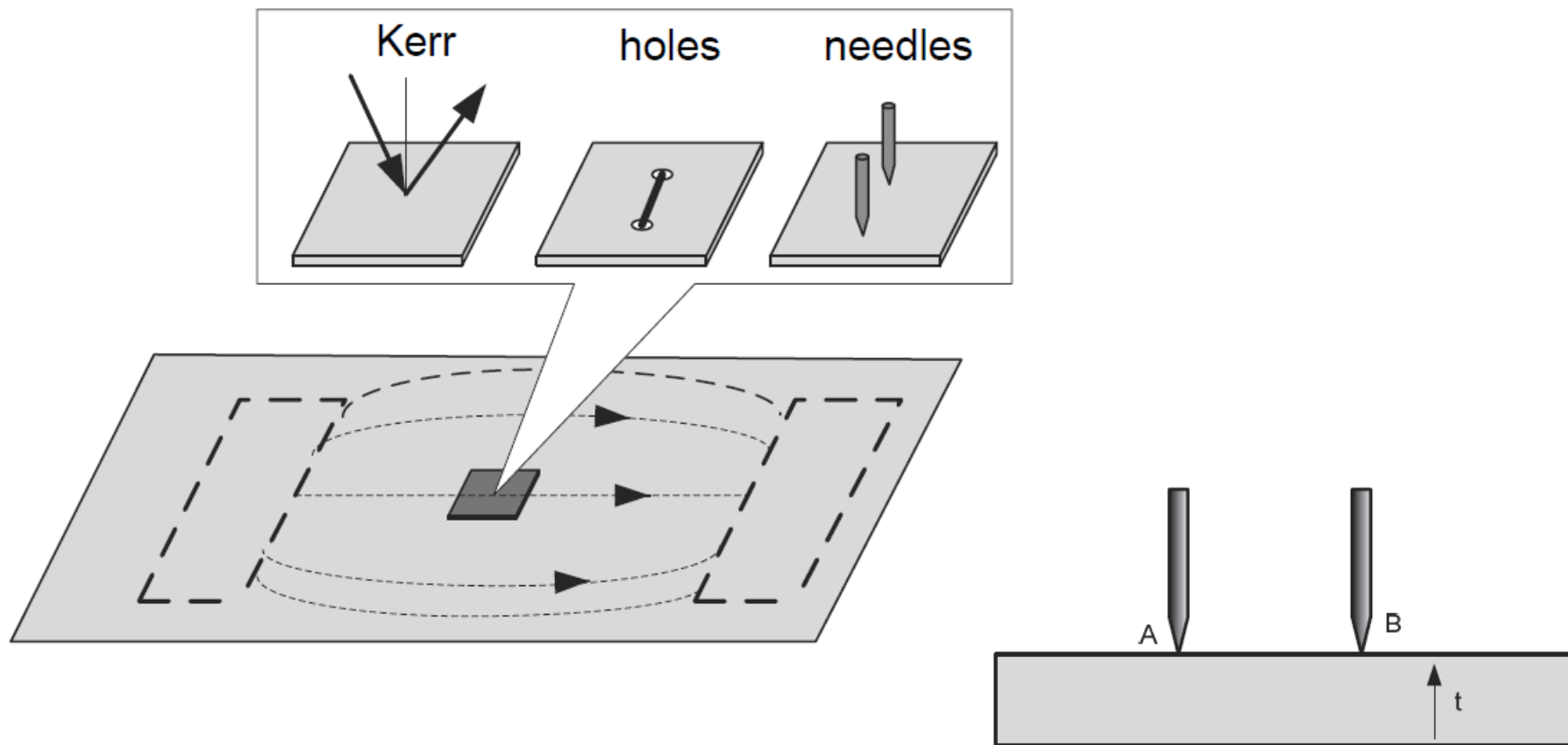
Tester próbek paskowych i arkuszowych



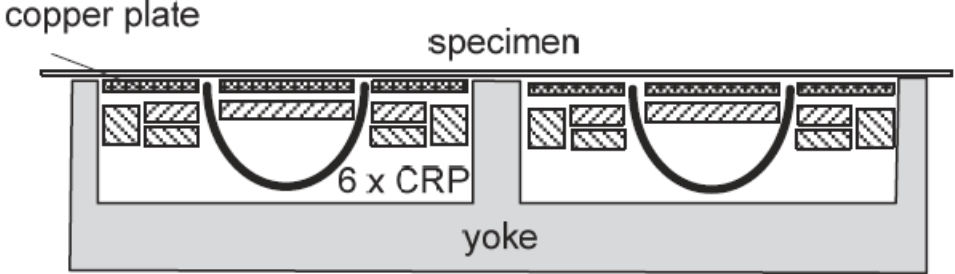
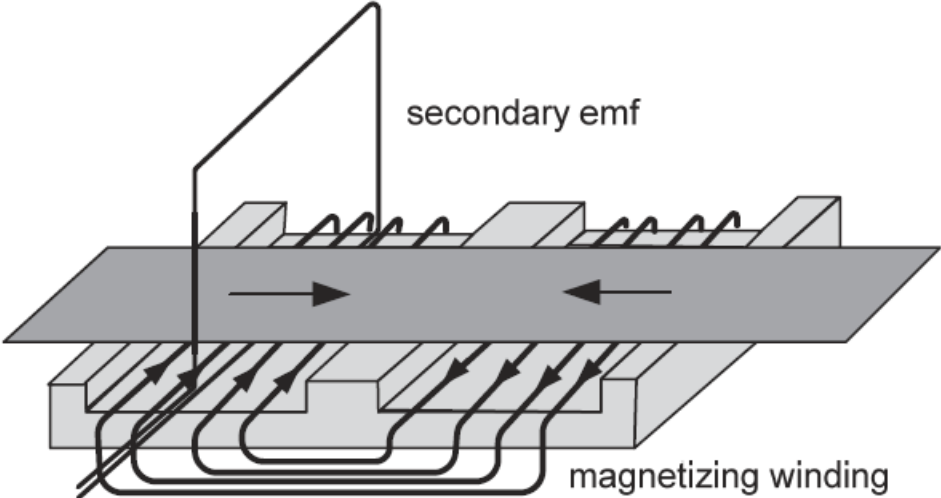
Bezpośredni pomiar natężenia pola magnetycznego



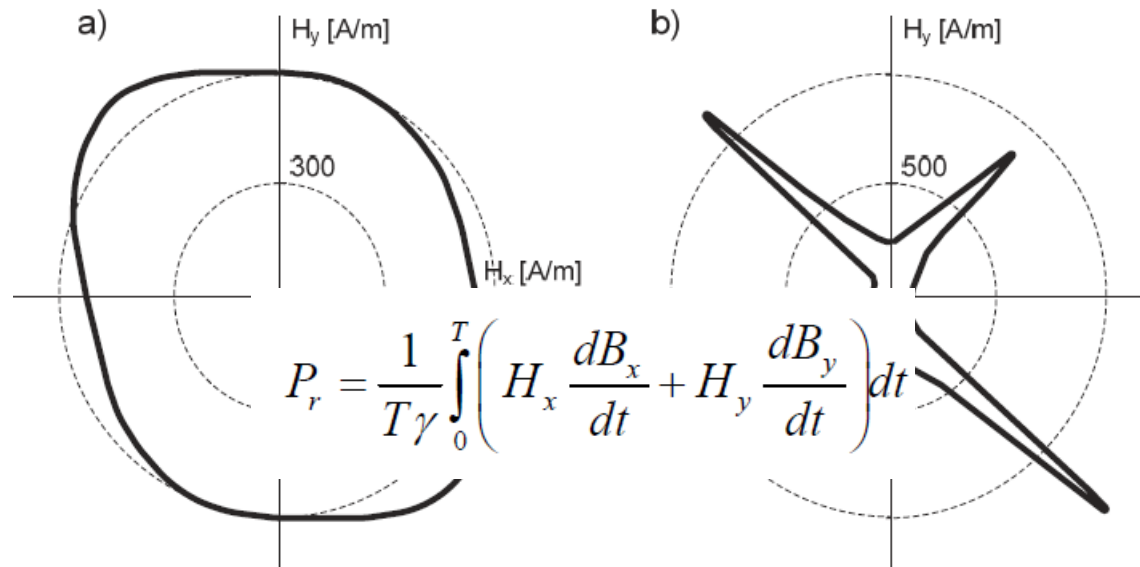
Bezpośredni pomiar indukcji



Tester on-line

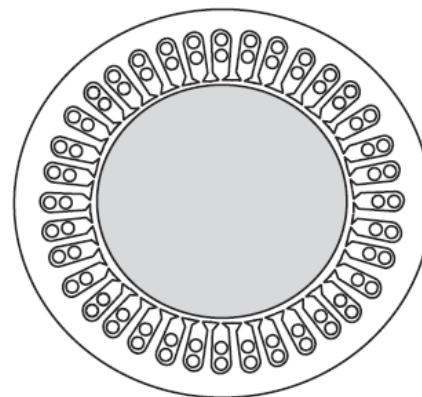
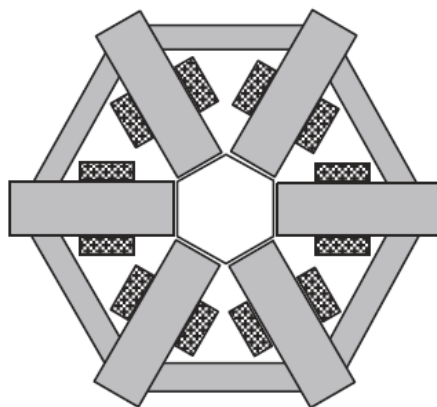
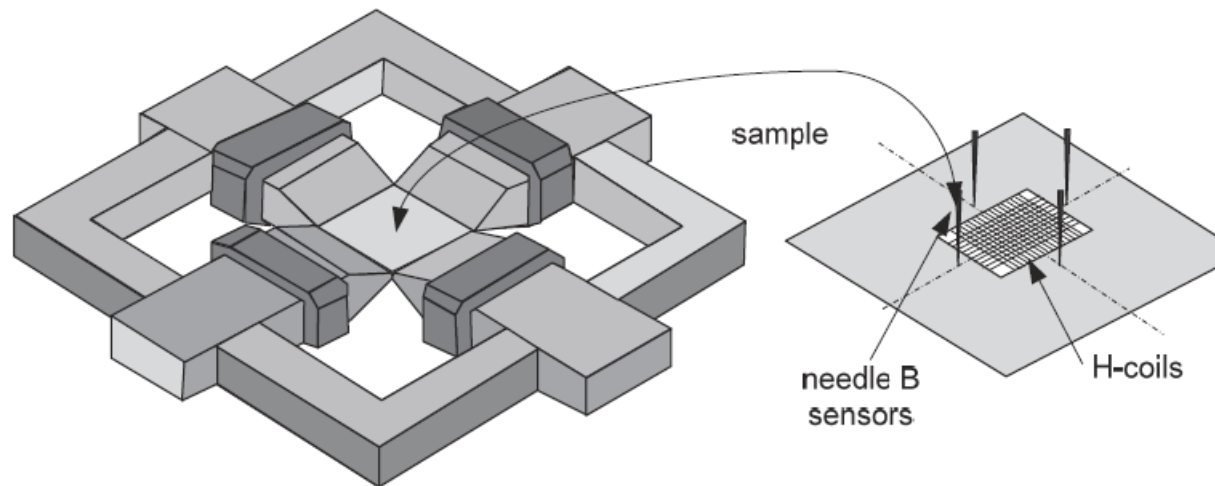


Anizotropia

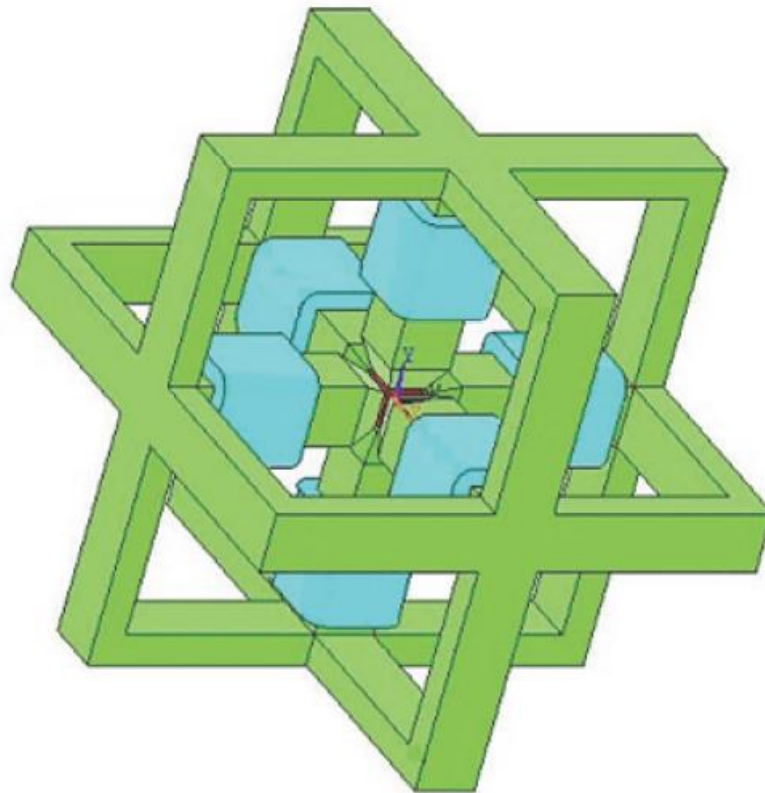


$$P_r = \frac{1}{T\gamma_0} \int_0^T \left(H_x \frac{dB_x}{dt} + H_y \frac{dB_y}{dt} \right) dt$$

Pomiar strat rotacyjnych



Pomiar 3D



Właściwości blach GO i NO

Table 1. Performances of typical grain-oriented steel samples [11]

Name	Thickness [mm]	Loss at 1.7 T, 50 Hz [W/kg]	Polarization for 800 A/m [T]
M080-23N	0.23	1.27	1.75
M089-27N	0.27	1.40	1.75
M097-30N	0.30	1.50	1.75
M111-35N	0.35	1.65	1.75
M120-23S	0.23	1.20	1.78
M130-27S	0.27	1.30	1.78
M140-30S	0.30	1.40	1.78
M150-35S	0.35	1.50	1.78
M100-23P	0.23	1.00	1.85
M103-27P	0.27	1.03	1.88
M105-30P	0.30	1.05	1.88
M111-30P	0.30	1.11	1.88
M117-30P	0.30	1.17	1.85

Table 1. Performances of typical non-oriented steel samples [12]

Name	Thickness [mm]	Loss at 1.5 T, 50 Hz [W/kg]	Polarization for 5000 A/m [T]	Anisotropy of loss %
M235-35A	0.35	2.35	1.60	17
M250-35A		2.50		
M270-35A		2.70		
M300-35A		3.00		
M330-35A		3.30		
M250-50A		0.50		
M270-50A	2.70		1.60	17
M290-50A	2.90		1.60	17
M310-50A	3.10		1.60	14
M330-50A	3.30		1.60	14
M350-50A	3.50		1.60	12
M400-50A	4.00		1.63	12
M470-50A	4.70		1.64	10
M530-50A	5.30		1.65	10
M600-50A	6.00		1.66	10
M700-50A	7.00		1.69	10
M800-50A	8.00		1.70	10
M940-50A	9.40		1.72	8