Fig. 2. Arrangement of the electrical part of the apparatus. C_H is the magnetizing coil (open solenoid with natural air cooling) ; the solenoid constant K is 122 Oe/A ; the internal max diameter, length, and region of homogeneous field of the solenoid are 60, 670, and 200 mm respectively. C_m is the measuring coil (length of winding 160 mm) ; C_c is the compensating coil ; R_{Sh} is a rheostat shunting C_c ; Fl is a fluxmeter of the Grassot type with a flux constant of c_ψ = 380±5 Mx/division and a permissible external resistance of $R_{ext} \leq 30\,\Omega$. Distance to the scale about 3 m.

Key
1) V
2) Sample
3) C_H
4) Fl
5) C_m
6) C_c
7) R_{Sh}

The value of the effect under consideration is calculated from the formula

.....R.p. 421 (2)

where....., n is the number of turns in C_m, α is the deflection of the fluxmeter in scale divisions, and.....(atm).

For the iron sample studied, I_s = 1690 G and S = 0.26 cm^2. From the 22 measurements made we found..... ; from this, according to (2):

.....R.p. 421