$cm^2/V.sec$, we obtain an electron conventration of 10¹⁶ to 10²⁰. For such carrier concentrations we ought easily to have been able to determine the Hall constant, since for magnetic fields of H = 22,000 Oe and a current of 1 A in a sample 0.1 cm thick the Hall emf E = 1.4.10⁻² V, since for....the Hall constant R = 6.3 cm³/C. We could easily have measured a value of E = 1.4.10⁻² V, since out apparatus had a sensitivity of 2.10⁻⁸ V.

Fig. 1. Fig. 2. Key 1) Oe

3. Effect of a Magnetic Field on the Electrical Resistance of Chromium Sulfides. Measurements of this effect showed that, sots , AR/R www.for compositions of./...at.% S/had an extremely small value, beyond the sensitivity of our apparatus. Exceptions were the chromium sulfides with a Sulfur excess (58 to 59 at.%), for which we were able to measure the change of resistance in a magnetic field ; however,had a negative sign, i.e., it behaved anomalously (see Fig. 2).

The only previous example of a fall in resistance in a magnetic field was tellurium (a semimetal), as indicated by R. A. Chentsov /3/.

The immeasurably small values of the Hall effect in chromium sulfides with sulfur contents of.....at,% and also the absence of any influence of magnetic field on the electrical resistance of

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