

primarily concerned with establishing the sign of the effect more reliably.

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Table 1

Key

- 1) atm<sup>-1</sup>
  - 2) or
  - 3) \* Calculated from formula (2)
  - 4) \*\* Calculated from formula (1).....atm<sup>-1</sup>
  - 5) Experimental conditions
  - 6) Oe
  - 7) Source
  - 8) This paper
  - 9) Formula (4)
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Furthermore, the work described in /1, 2/ was carried out at room temperature, whereas low temperatures are preferable in order to eliminate the influence of the para process, etc., on the effect in question. We therefore carried out our own experiments at liquid-nitrogen temperature (-196°C), as well as at room temperature (20°). The magnetic field was H = 1800 to 2000 Oe, which was adequate for the saturation of Armco iron. The compressing medium was a gas not solidifying at 77°K and 2000 atm. Oil was used for this purpose in /1, 2/.

The arrangement of the apparatus is shown in Fig. 1. The sample under test, 1, a machined Armco iron rod 570 mm long and 5.75 mm in diameter\*, lies freely in the chamber 3 (the gap between the

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\* The sample is annealed in hydrogen at 1340°C for 15 min, heated in vacuum to 900°C, and cooled in the furnace,