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| **四：数据记录及分析：**  组号： 8 ；姓名 王俊彬  由公式：    计算出对应的H与B。  其中样品参数为:  平均磁路长度 L=0.130m  磁芯样品截面积S=1.24x  线圈匝数N1= N2 =N3= 150  磁化曲线：   |  |  |  |  | | --- | --- | --- | --- | | **Ux** | **H** | **Uy** | **B** | | 28 | 40.38462 | 14 | 158064.5 | | 36 | 51.92308 | 18 | 203225.8 | | 52 | 75 | 28 | 316129 | | 80 | 115.3846 | 48 | 541935.5 | | 98 | 141.3462 | 60 | 677419.4 | | 152 | 219.2308 | 74 | 835483.9 | | 200 | 288.4615 | 84 | 948387.1 | | 252 | 363.4615 | 88 | 993548.4 | | 300 | 432.6923 | 94 | 1061290 | | 400 | 576.9231 | 102 | 1151613 |     磁滞回线：   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **Ux** | **H** | **U1(上行)** | **B1** | **U2(下行)** | **B2** | | 400 | 576.92 | 100 | 1129030 | 100 | 1129030 | | 300 | 432.69 | 98 | 1106450 | 92 | 1038710 | | 204 | 294.23 | 90 | 1016130 | 80 | 903226 | | 100 | 144.23 | 78 | 880645 | 40 | 451613 | | 64 | 92.30 | 74 | 835484 | -8 | -90322 | | 20 | 28.85 | 66 | 745161 | -50 | -564516 | | 0 | 0 | 60 | 677419 | -58 | -654839 | | -20 | -28.85 | 48 | 541935 | -66 | -745161 | | -40 | -57.69 | 34 | 383871 | -68 | -767742 | | -60 | -86.53 | 3 | 45161 | -72 | -812903 | | -88 | -126.92 | -30 | -338710 | -76 | -858065 | | -100 | -144.23 | -36 | -406452 | -80 | -903226 | | -204 | -294.23 | -76 | -858065 | -88 | -993548 | | -300 | -432.69 | -92 | -1038710 | -98 | -1106450 | | -400 | -576.92 | -100 | -1129030 | -100 | -1129030 |     **五：思考题**   1. **测量磁化曲线和磁滞曲线时，为什么要将材料退磁**   答： 铁磁材料被磁化后，当外磁场强度h减为0后，仍然有剩磁；只有消除剩磁我们在测基本磁化曲线时，对较小的磁场强度h的电压u对应的样品的磁感应强度b才是正确的，才能显示正确的图形。  **（2）R1的值为什么不能大**  答：是因为较大时分压较多，会造成线圈电压小，不利于测量 |
| 成绩评定：     |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | 预习  （20分） | 操作及记录  （40分） | 数据处理  （20分） | 结果陈述  （5分） | 实验总结  （5分） | 思考题  （10分） | 总分 | |  |  |  |  |  |  |  | |