1. 起始磁化曲线

样品1 f=50Hz R1=5.0Ω R2=40KΩ c=1μF Sx=0.1V/div Sy=5mV/div

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| X/div | 0 | 0.2 | 0.4 | 0.6 | 0.8 | 1 | 1.5 | 2 | 2.5 | 3 | 4 | 5 |
| Y/div | 0 | 0.1 | 0.25 | 0.55 | 0.85 | 1.1 | 1.6 | 2 | 2.2 | 2.35 | 2.5 | 2.55 |
| H/(A/m) | 0 | 4.62 | 9.23 | 13.85 | 18.46 | 23.08 | 34.62 | 46.15 | 57.69 | 69.23 | 92.31 | 115.38 |
| B/mT | 0 | 1.08 | 2.69 | 5.91 | 9.14 | 11.83 | 17.20 | 21.51 | 23.66 | 25.27 | 26.88 | 27.42 |
| μ/(10^7H/m) | 0 | 18.55 | 23.19 | 34.01 | 39.42 | 40.81 | 39.57 | 37.10 | 32.65 | 29.06 | 23.19 | 18.92 |

1. 磁滞回线

（1）、样品1 f=50Hz R1=5.0Ω R2=40KΩ c=1μF Sx=0.1V/div Sy=5mV/div

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| X/div | -5 | -4 | -3 | -2 | -1.5 | -1 | -0.5 |
| Y1/div | -2.55 | -2.55 | -2.4 | -2.2 | -1.6 | -1 | 0 |
| Y2/div | -2.55 | -2.5 | -2.5 | -2.4 | -2.4 | -2.2 | -1.9 |
| H/(A/m) | -115.38 | -92.31 | -69.23 | -46.15 | -34.62 | -23.08 | -11.54 |
| B1/mT | -27.42 | -27.42 | -25.81 | -23.66 | -17.20 | -10.75 | 0.00 |
| B2/mT | -27.42 | -26.88 | -26.88 | -25.81 | -25.81 | -23.66 | -20.43 |
| X/div | 0 | 0.5 | 1 | 1.5 | 2 | 3 | 4 |
| Y1/div | 1.2 | 1.8 | 2.1 | 2.3 | 2.4 | 2.5 | 2.55 |
| Y2/div | -1.4 | 0 | 0.8 | 1.7 | 2.1 | 2.35 | 2.55 |
| H/(A/m) | 0.00 | 11.54 | 23.08 | 34.62 | 46.15 | 69.23 | 92.31 |
| B1/mT | 12.90 | 19.35 | 22.58 | 24.73 | 25.81 | 26.88 | 27.42 |

（2）、样品1 f=150Hz R1=7Ω R2=40KΩ C=4μF Sx=0.1V/div Sy=5mV/div

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| X/div | -5 | -4 | -3 | -2 | -1.5 | -1 | -0.5 | 0 |
| Y1/div | -3.2 | -3 | -2.6 | -1.9 | -1.3 | -0.8 | 0 | 0.9 |
| Y2/div | -3.2 | -3.1 | -2.8 | -2.5 | -2.3 | -2 | -1.6 | -1.1 |
| H/(A/m) | -82.42 | -65.93 | -49.45 | -32.97 | -24.73 | -16.48 | -8.24 | 0.00 |
| B1/mT | -137.63 | -129.03 | -111.83 | -81.72 | -55.91 | -34.41 | 0.00 | 38.71 |
| B2/mT | -137.63 | -133.33 | -120.43 | -107.53 | -98.92 | -86.02 | -68.82 | -47.31 |
| X/div | 0.5 | 1 | 1.5 | 2 | 3 | 4 | 5 | 0.5 |
| Y1/div | 1.9 | 2.3 | 2.6 | 2.8 | 3 | 3.1 | 3.2 | 1.9 |
| Y2/div | 0 | 1.15 | 2 | 2.5 | 2.9 | 3.1 | 3.2 | 0 |
| H/(A/m) | 8.24 | 16.48 | 24.73 | 32.97 | 49.45 | 65.93 | 82.42 | 8.24 |
| B1/mT | 81.72 | 98.92 | 111.83 | 120.43 | 129.03 | 133.33 | 137.63 | 81.72 |
| B2/mT | 0.00 | 49.46 | 86.02 | 107.53 | 124.73 | 133.33 | 137.63 | 0.00 |

（3）、样品2 f=50Hz R1=2.0Ω R2=40KΩ c=4μF Sx=0.1V/div Sy=20mV/div

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| X/div | -5 | -4 | -3 | -2 | -1.5 | -1 | -0.5 | 0 |
| Y1/div | -2.1 | -1.9 | -1.7 | -1.4 | -1 | 0.3 | 1.2 | 1.4 |
| Y2/div | -2.1 | -2.05 | -2 | -1.85 | -1.8 | -1.75 | -1.6 | -1.55 |
| H/(A/m) | -500.00 | -400.00 | -300.00 | -200.00 | -150.00 | -100.00 | -50.00 | 0.00 |
| B1/T | -373.33 | -337.78 | -302.22 | -248.89 | -177.78 | 53.33 | 213.33 | 248.89 |
| B2/T | -373.33 | -364.44 | -355.56 | -328.89 | -320.00 | -311.11 | -284.44 | -275.56 |
| X/div | 0.5 | 1 | 1.5 | 2 | 3 | 4 | 5 | 0.5 |
| Y1/div | 1.5 | 1.6 | 1.7 | 1.8 | 1.9 | 1.95 | 2 | 1.5 |
| Y2/div | -1.4 | -0.8 | 0.5 | 1.2 | 1.6 | 1.8 | 2 | -1.4 |
| H/(A/m) | 50.00 | 100.00 | 150.00 | 200.00 | 300.00 | 400.00 | 500.00 | 50.00 |
| B1/T | 266.67 | 284.44 | 302.22 | 320.00 | 337.78 | 346.67 | 355.56 | 266.67 |
| B2/T | -248.89 | -142.22 | 88.89 | 213.33 | 284.44 | 320.00 | 355.56 | -248.89 |