**空载实验数据**

低压侧*UN*=220V

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 序号 | 记录数据 | | | | | | | 计算数据 | | | | | | |
| *Uab* | *Ubc* | *Uca* | *Ia* | *Ib* | *Ic* | *P1* | *P2* | *U0* | *I0* | *U0\** | *I0\** | *P0* | *cosφ0* |
| 1 | 266 | 263.9 | 264.3 | 1.18 | 0.79 | 1.22 | 236.2 | -175 | 264.73 | 1.06 | 1.2 | 0.27 | 61.2 | 0.13 |
| 2 | 246.2 | 244.5 | 244.2 | 0.87 | 0.57 | 0.89 | 163.9 | -117 | 244.96 | 0.77 | 1.11 | 0.20 | 46.9 | 0.14 |
| 3 | 225 | 224.1 | 224.4 | 0.64 | 0.42 | 0.65 | 112.8 | -76.3 | 224.50 | 0.57 | 1.02 | 0.14 | 36.5 | 0.16 |
| 4 | 205 | 203.9 | 204.4 | 0.47 | 0.3 | 0.46 | 76.54 | -46.9 | 204.43 | 0.41 | 0.93 | 0.10 | 29.64 | 0.2 |
| 5 | 185.5 | 184.5 | 184.1 | 0.34 | 0.22 | 0.33 | 51.4 | -28.3 | 184.7 | 0.29 | 0.84 | 0.08 | 23.1 | 0.24 |
| 6 | 164.9 | 164.2 | 165 | 0.24 | 0.15 | 0.24 | 34.35 | -15.8 | 164.7 | 0.21 | 0.75 | 0.05 | 18.55 | 0.31 |
| 7 | 143.6 | 144 | 143.4 | 0.17 | 0.11 | 0.17 | 22.56 | -8.01 | 143.67 | 0.15 | 0.65 | 0.04 | 14.55 | 0.39 |
| 8 | 111.4 | 110.7 | 111.7 | 0.12 | 0.08 | 0.12 | 12.25 | -2.67 | 111.27 | 0.11 | 0.51 | 0.03 | 9.58 | 0.47 |

**负载损耗实验数据**

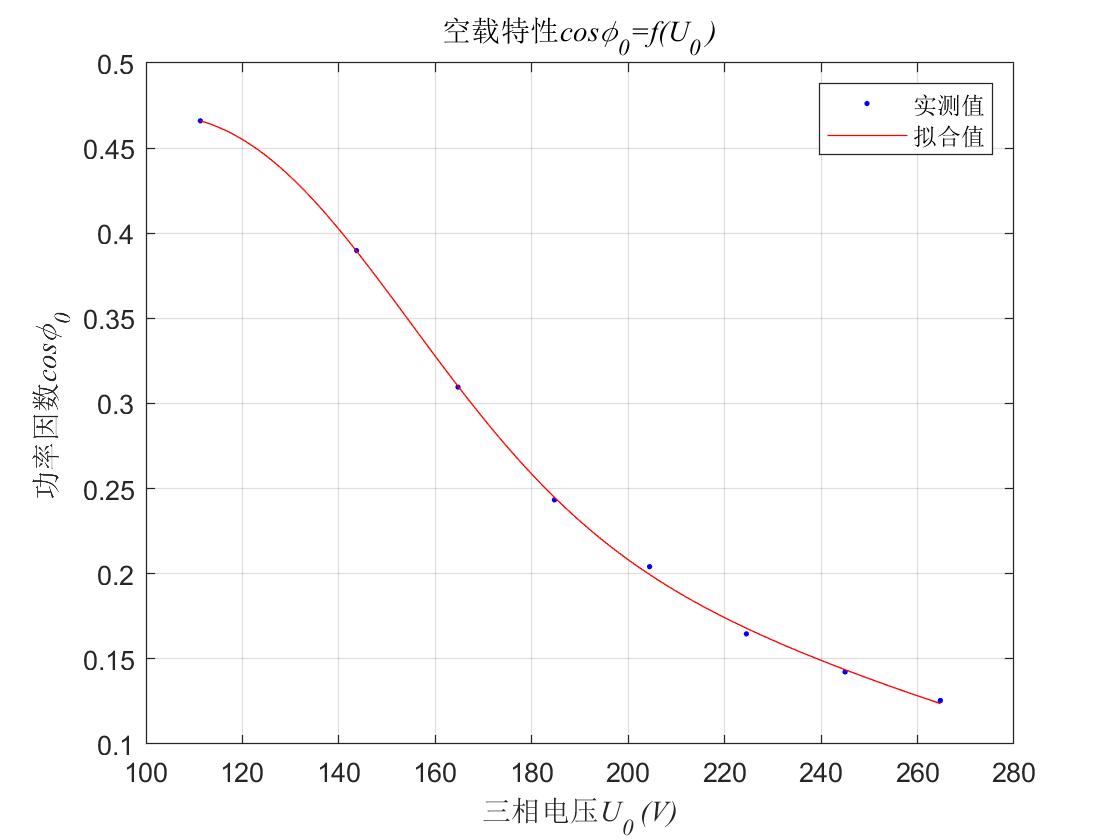
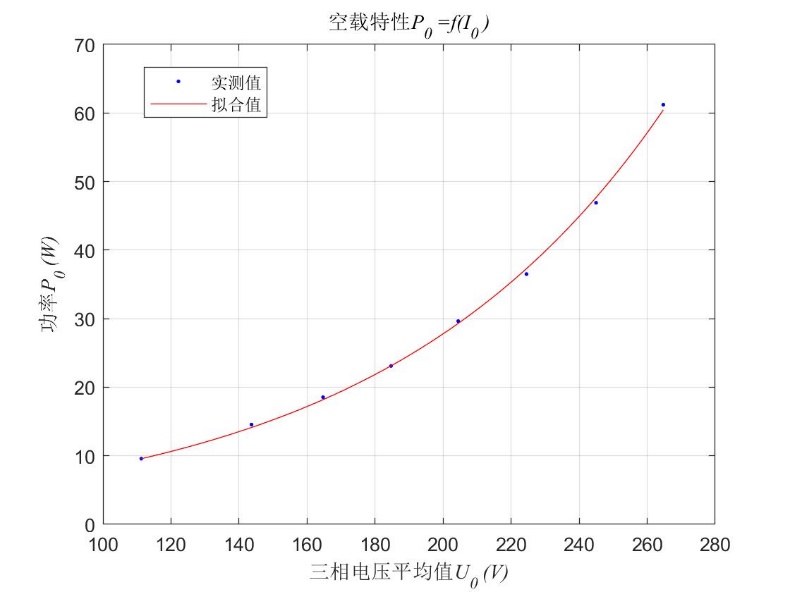
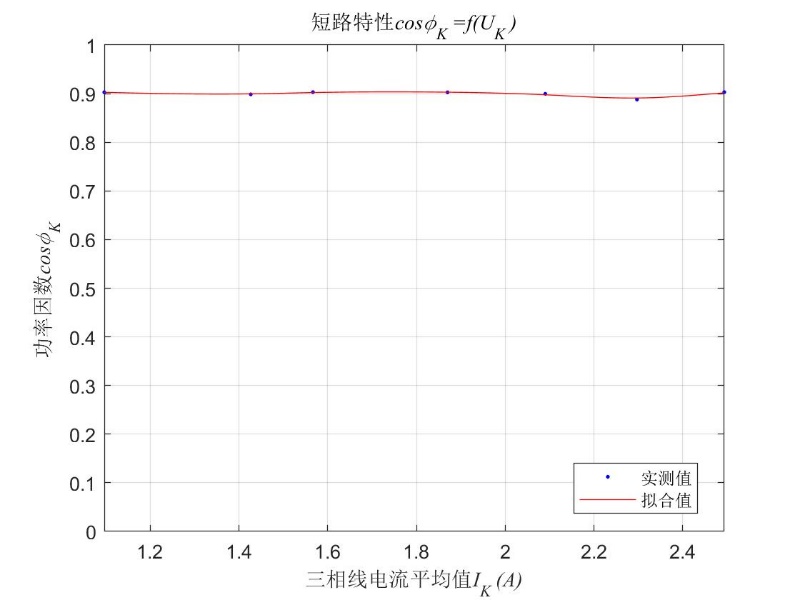
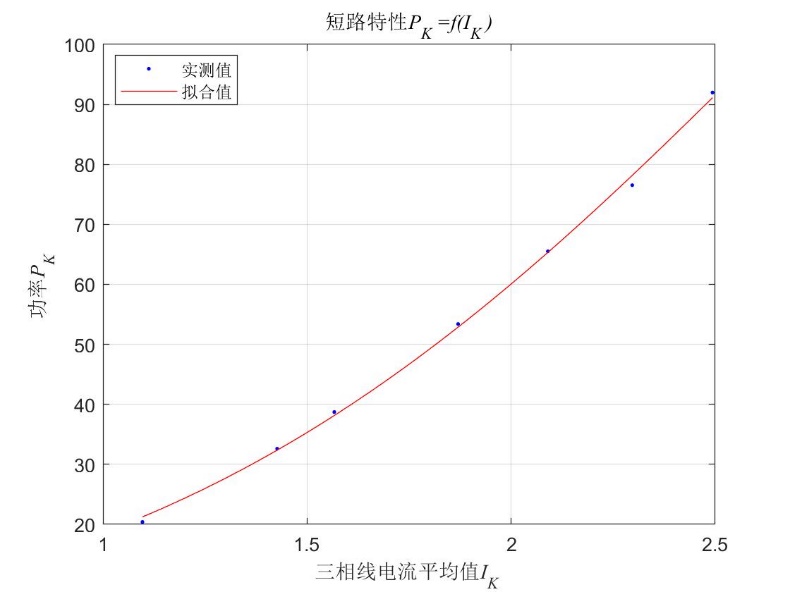
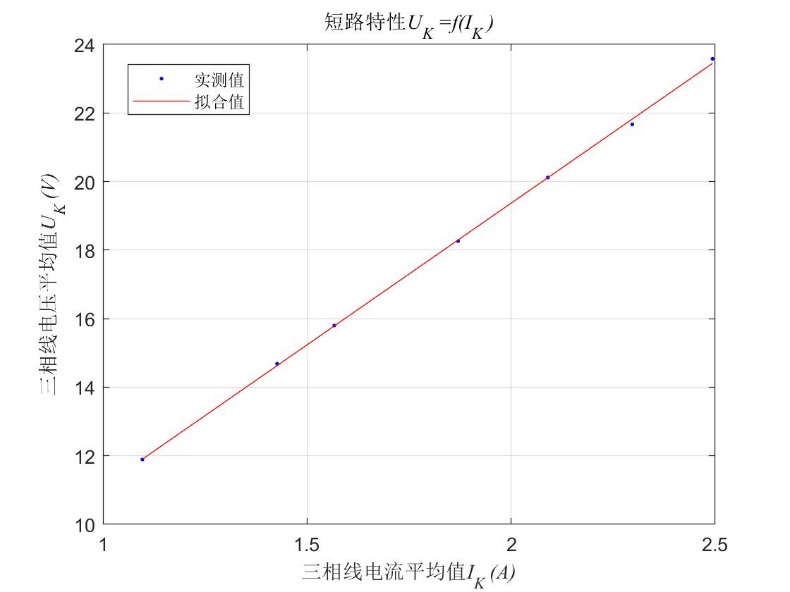
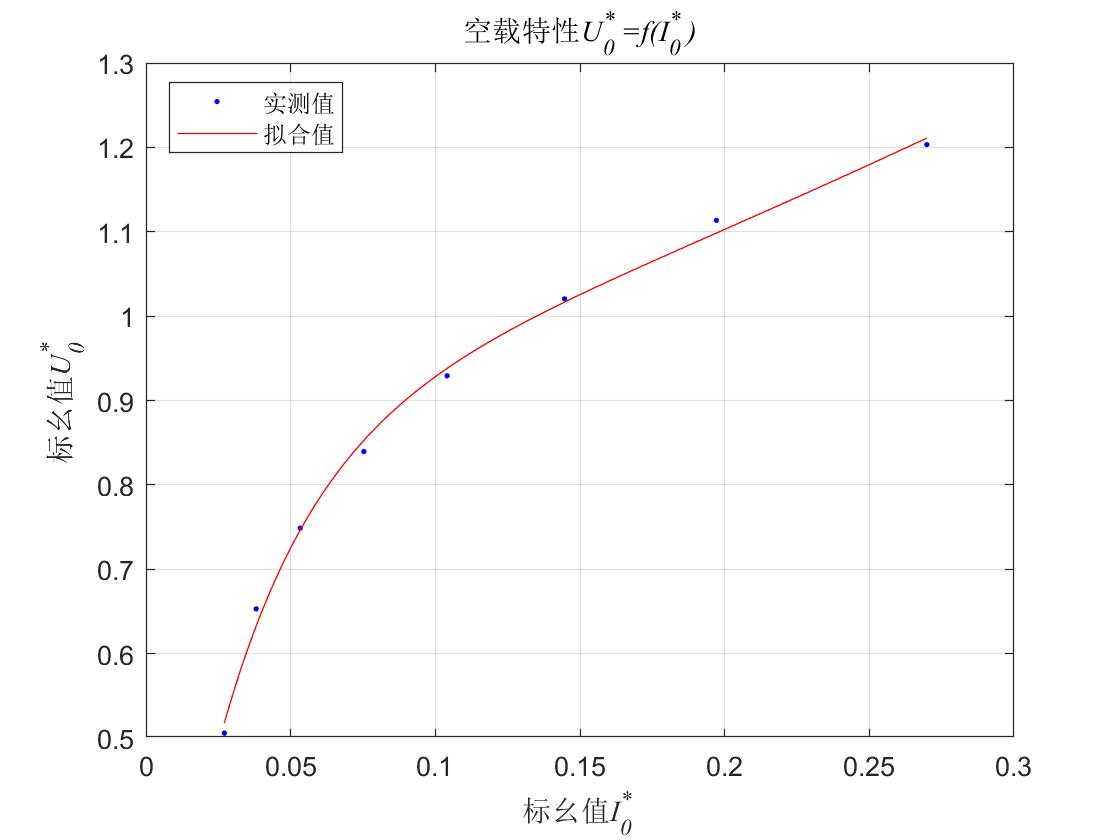
高压侧*IN*=2.28A

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 序号 | 记录数据 | | | | | | | | 计算数据 | | | |
| *IA* | *IB* | *IC* | *UAB* | *UBC* | *UCA* | *P1* | *P2* | *IK* | *UK* | *PK* | *cosφK* |
| 1 | 2.53 | 2.51 | 2.44 | 23.53 | 23.54 | 23.67 | 55.84 | 36.13 | 23.58 | 2.49 | 91.97 | 0.90 |
| 2 | 2.34 | 2.27 | 2.28 | 21.52 | 21.54 | 21.94 | 46.45 | 30.08 | 21.67 | 2.30 | 76.53 | 0.89 |
| 3 | 2.11 | 2.11 | 2.05 | 20.02 | 20.11 | 20.22 | 39.56 | 25.95 | 20.12 | 2.09 | 65.51 | 0.90 |
| 4 | 1.9 | 1.88 | 1.83 | 18.19 | 18.24 | 18.35 | 32.3 | 21.09 | 18.26 | 1.87 | 53.39 | 0.90 |
| 5 | 1.61 | 1.63 | 1.46 | 16.28 | 15.49 | 15.63 | 24.6 | 14.12 | 15.8 | 1.57 | 38.72 | 0.90 |
| 6 | 1.46 | 1.43 | 1.39 | 14.56 | 14.66 | 14.83 | 19.85 | 12.75 | 14.68 | 1.43 | 32.6 | 0.90 |
| 7 | 1.14 | 1.08 | 1.07 | 11.36 | 11.87 | 12.44 | 11.85 | 8.54 | 11.89 | 1.1 | 20.3 | 0.90 |

**三相变压器联结组校验**

单位：V

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 联结组别 | 电压比K |  | *UBb* | *UCb* | *UBc* |
| Y,y0  Y/Y-12 |  | 公式 |  |  |  |
| 计算值 | 92.62 | 191.33 | 191.33 |
| 实测值 | 93.7 | 190 | 193 |
| Y,y6  Y/Y-12 |  | 公式 |  |  |  |
| 计算值 | 346.64 | 304.42 | 304.42 |
| 实测值 | 348.2 | 303 | 302.7 |
| Y,d11  Y/△-11 |  | 公式 |  |  |  |
| 计算值 | 159.33 | 231.44 | 159.33 |
| 实测值 | 160.3 | 231 | 161.7 |
| Y,d5  Y/△-5 |  | 公式 |  |  |  |
| 计算值 | 288.7 | 234.11 | 288.7 |
| 实测值 | 287.3 | 229.1 | 287.7 |

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