1021 热学系列实验 数据处理报告

数据处理：

用差分代微分对应记录表

|  |  |  |
| --- | --- | --- |
| 时间 | x | y |
| 0 | -2.07280 | 0.01330 |
| 1 | -1.35195 | 0.01073 |
| 2 | -0.75970 | 0.00901 |
| 3 | -0.21890 | 0.00901 |
| 4 | 0.21895 | 0.00558 |
| 5 | 0.63115 | 0.00816 |
| 6 | 1.09490 | 0.00730 |
| 7 | 1.55870 | 0.00816 |
| 8 | 2.12570 | 0.01074 |
| 9 | 2.69280 | 0.00816 |
| 10 | 3.10525 | 0.00559 |
| 11 | 3.59515 | 0.01075 |
| 12 | 4.07220 | 0.00516 |
| 13 | 4.43325 | 0.00688 |
| 14 | 4.89755 | 0.00860 |
| 15 | 5.38770 | 0.00774 |
| 16 | 5.82630 | 0.00688 |
| 17 | 6.23915 | 0.00688 |
| 18 | 6.65210 | 0.00688 |
| 19 | 7.12960 | 0.00903 |
| 20 | 7.63295 | 0.00775 |
| 21 | 8.09770 | 0.00775 |
| 22 | 8.57545 | 0.00818 |
| 23 | 9.10490 | 0.00947 |
| 24 | 9.51815 | 0.00431 |
| 25 | 9.84105 | 0.00646 |
| 26 | 10.20275 | 0.00560 |
| 27 | 10.60325 | 0.00775 |
| 28 | 11.06840 | 0.00775 |

冰的溶解热

L = 480726.346415808

K = 6.53146379458834

焦耳热功当量

J = 1.21750259517404

不确定度合成

Ua = 6.87464513512705E-03

UJ = 1.6000516945815