Протокол

к лабораторной работе №18

Исследование характеристик фотоэлемента с внешним фотоэффектом

Таблица 1. Вольтамперные характеристики элемента.

J/J0=

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| U, В | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| Iтем, мкА | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| λ= | I, мка |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| I-Iтем, мкА |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| λ= | I, мка |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| I-Iтем, мкА |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| λ= | I, мка |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| I-Iтем, мкА |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Таблица 2. Световые характеристики элемента.

U= , Iтем=

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| J/J0 | | 0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 | 1.0 | 1.1 | 1.2 |
| λ= | I, мка |  |  |  |  |  |  |  |  |  |  |  |  |  |
| I-Iтем, мкА |  |  |  |  |  |  |  |  |  |  |  |  |  |
| λ= | I, мка |  |  |  |  |  |  |  |  |  |  |  |  |  |
| I-Iтем, мкА |  |  |  |  |  |  |  |  |  |  |  |  |  |

Таблица 3. Спектральная характеристика фотоэлемента.

J/J0= , U= , Iтем=

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| λ, нм | 430 | 470 | 520 | 565 | 590 | 660 | 700 | 860 |
| I, мка |  |  |  |  |  |  |  |  |
| I-Iтем, мкА |  |  |  |  |  |  |  |  |
| I, мка |  |  |  |  |  |  |  |  |
| I-Iтем, мкА |  |  |  |  |  |  |  |  |

Выполнил: Красавцев В.В.

21.11.2017

Подпись преподавателя \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_