**VAJA: 12 Merjenje karakteristike diode**

2. Besedilo:

* Izmeri in izračunaj odvisnosti diode.

3. Merilno vezje:

Diagram

Description automatically generated Diagram

Description automatically generated

4. Seznam merilnikov:

* Protek A802
* Voltcraft VC1301

5. Merilna tabela:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| *Ud* (V) | *R* (Ω) | *r* (Ω) | *Urdeča* (V) | *Urumena* (V) | *Uzelena* (V) | *I* (A) |
| 0 | x | x | 0 | 0 | 0 | 0 |
| 0.66 | 3300 | 3300 | 1.59 | 1.68 | 1.76 | 0.2 |
| 0.70 | 1400 | 133 | 1.64 | 1.74 | 1.82 | 0.5 |
| 0.73 | 730 | 60 | 1.67 | 1.78 | 1.86 | 1 |
| 0.74 | 370 | 10 | 1.71 | 1.82 | 1.90 | 2 |
| 0.77 | 154 | 10 | 1.78 | 1.90 | 1.97 | 5 |
| 0.79 | 79 | 4 | 1.85 | 2.00 | 2.10 | 10 |
| 0.81 | 41 | 2 | 1.95 | 2.14 | 2.26 | 20 |

|  |  |  |  |
| --- | --- | --- | --- |
| *I* (A) | *Ud* (V) | *R* (Ω) | *r* (Ω) |
| 0 | 0 | x | x |
| -0.2 | -2.78 | 13900 | 13900 |
| -0.5 | -3.36 | 6720 | 1933 |
| -1 | -3.59 | 3590 | 460 |
| -2 | -3.83 | 1915 | 240 |
| -5 | -4.16 | 832 | 110 |
| -10 | -4.36 | 436 | 40 |
| -20 | -4.47 | 224 | 11 |

6. Enačbe:

A picture containing text

Description automatically generated

7. Grafi:

8. Komentar:

Pri vaji smo najprej postavili nekaj enačb in zazožili kaj je dioda, omenili smo tudi njihove vrste in nat opravili meritve.