

Measurement of quantum efficiency of thin film solar cells (praca w jęz. angielskim)

Opis

1. Introduction

- 2. Solar cells
 - 2.1. Basis of solar radiation
 - 2.2. Phenomena in semiconductor
 - 2.3. Photovoltaic effect
 - 2.4. Basic structures of solar cells
 - 2.5. Main properties
 - 2.6. Advantages of thin film solar cells

3. Measurements

- 3.1. Measurement methods
 - 3.1.1. Measurement of the quantum efficiency
 - 3.1.2. Measurement of the I-V curves
- 3.2. Tools
 - 3.2.1. The source measure unit (Keithley)
 - 3.2.2. The monochromator (Bentham)
 - 3.2.3. The lock-in amplifier (EG&G)

4. Results of measurements

- 4.1. Quantum efficiency
- 4.2. I-V Curves

5. Summary and conclusions

- 6. References