

Question 20**(11 marks)**

A team of physicists was tasked with improving the materials that are used on the international space station. During the study, the work function of an alloy used on a new sensor needed to be determined.

The physicists set up a photocell that allowed the alloy (the cathode) to have a controlled frequency of light to be incident upon it. The energy of the light was used to release photoelectrons from the alloy.

Two measurements were taken for each frequency of light used. Initially the anode was given a positive potential and the number of photoelectrons arriving at the anode per second was recorded. For the second measurement the anode was given a negative potential which was slowly reduced until the number of photoelectrons arriving at the anode was close to zero. This potential was recorded as the stopping voltage. This measurement was determined to have an uncertainty of ± 0.05 V due to the sensitivity of the equipment.



Frequency of light (Hz)	Number of photoelectrons produced in 1 second	Stopping voltage (V)	Percentage uncertainty of stopping voltage
3.6×10^{14}	0	--	--
4.9×10^{14}	255,000	0.49	
5.6×10^{14}	256,000	0.76	
6.2×10^{14}	252,000	1.01	
6.8×10^{14}	257,000	1.28	
7.5×10^{14}	255,000	1.56	

No photoelectrons were detecting for incident light of 3.6×10^{14} Hz so no stopping voltage was recorded.

- (a) Complete the table of data above by filling in the percentage uncertainty of the stopping voltage. (1 mark)
- (b) What was the purpose of giving the anode a positive potential when trying to measure the number of photoelectrons produced? (1 mark)

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