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Photo-Ionization of Caesium by Line Absorption (Classic Reprint) (Hardback)

By F L Mohler

Forgotten Books, 2017. Hardback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from Photo-Ionization of Caesium by Line Absorption There is a small surface effect which is greatest with the caesium at room temperature. Then light of all wave lengths from the ultra-violet to the visible gives an increase in electron current with a sensitivity highest in the ultra-violet, but entirely different from the photo-ionization sensitivity. This current change increases as the thermionic current is increased up to the saturation value by raising the cathode temperature, but unlike the space-charge effect there is no further increase upon exceeding the saturation temperature. These and other tests indicate that the effect can be ascribed to photo electric emission from a transparent caesium film on the quartz window.⁹ The photo-electric emission changes the potential of the film which in the arrangement of Figure 1 acts like an external grid on the electron emission. With higher vapor pressures the film resistance and potential change decrease. Well below 100 C. The effect is masked by the volume photo-ionization. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at This book is a reproduction...



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