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Photocapacitive Effect in Rhodamine-B

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Large change was observed in the capacity of evaporated thin film of rhodamine-B sandwiched between NESA glass and aluminium electrode upon illumination by xenon lamp. Measurement of the voltage dependence of the capacity revealed the existence of Schottky barriers at the two contacts between rhodamine-B and electrodes. It is concluded from the analysis of the equivalent circuit that the photocapacitive effect in rhodamine-B can be more satisfactorily explained by considering the contribution from the photodielectric effect in addition to the photoconductive effect.

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