

Title	Photoresponse of cadmium sulfide photoconductor
Sub Title	
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Publisher	慶應義塾大学藤原記念工学部
Publication year	1965
Jtitle	Proceedings of the Fujihara Memorial Faculty of Engineering Keio University (慶應義塾大学藤原記念工学部研究報告). Vol.18, No.71 (1965.) ,p.99(35)- 99(35)
JaLC DOI	
Abstract	
Notes	Summaries of Doctor and Master Theses Master of Engineering, 1965 Electrical Engineering
Genre	Departmental Bulletin Paper
URL	https://koara.lib.keio.ac.jp/xoonips/modules/xoonips/detail.php?koara_id=KO50001004-00180071-0035

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Photoresponse of Cadmium Sulfide Photoconductor

Yasunori HIDA*

CdS photoconductive elements containing various amounts of impurity were prepared by the method of sintering. Experiments were made to obtain their spectral sensitivity and other characteristics, as well as the rise and decay curves of photocurrents excited by light pulses. These curves seem to consist of two components, corresponding to monomolecular and bimolecular processes in the photoconductor respectively.

An equivalent circuit is proposed, consisting of a voltage source, representing an ideal photoelectric transformation, a load resistance, an inductance, and a non-linear resistance. The rise and decay curves obtained by calculation fit the experimental curves within 10 per cent.

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