

THE PHOTOELECTRET STATE  
IN THERMALLY TREATED SILICON  
FILMS WITHOUT EXTERNAL POLARIZING FIELD

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S u m m a r y

A simplified technology for the fabrication of Si films in the photoelectret state (PES), which is based on the thermal treatment of the films in air, is reported. The state arises due to the illumination of a film without the application of an external polarizing field. The results of experimental researches are discussed, and their physical interpretation in the framework of the model with two deep levels is given.