

The MESFET as an Optically Activated Microwave Switch - Theory and Experiment

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This paper presents a novel model for the optical switching of the MESFET. The model is based on basic principles and predicts the optical switching performance as function of the optical signal parameters, the bias level and the device physics and geometry. The results and conclusions from the theory are verified by measurements. The new model can serve as a design tool for designing an optimal MESFET for optical switching purposes.

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