

This thesis investigates the ability to model a tunnel junction device using the ATLAS device simulator by Silvaco International. The tunnel junction is a critical component of a multijunction solar cell. This thesis will concentrate on simulating the tunnel junction for application as part of a multijunction solar cell. It will try several methods, in ATLAS device simulator, to produce a model of the tunnel junction that can later be used while designing multijunction devices. These methods will consist of the review of past work, attempting to modify past work to be applied in the current design, producing a new tunnel junction simulation from the ground-up, and review of the simulations of similar devices to learn if they can be modified and applied to making a working tunnel junction model.

Mark of the Shaman, Egon Schiele: Erotic Sketchbook, Informatics and the Digital Society: Social, Ethical and Cognitive Issues (IFIP Advances in Information and Communication Technology), Continuo Realization in Handels Vocal Music (Studies in Music (University of Rochester Press)), Erfolgsmessung: Woran sollte der Erfolg des betriebswirtschaftlichen Instituts dieser Fakultät in kurz- und langfristiger Perspektive gemessen werden? (German Edition), Law and Government in England during the Long Eighteenth Century: From Consent to Command (Studies in Modern History),

TITLE AND SUBTITLE: A Novel Approach to Modeling Tunnel Junction. Diodes using Silvaco Atlas Software. 6. AUTHOR(S) Robert J Gelinias.

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DTIC ADA A Novel Approach to Modeling Tunnel Junction Diodes Using Silvaco Atlas Software. by Defense Technical Information. Solar cell operation was modeled using the Silvaco ATLASTM software. Five- Junction Solar Cell Optimization Using Silvaco Atlas A novel approach for the modeling of advanced photovoltaic devices using the TFET structure to tune the tunneling width at source-channel interface allowing significant flow of carriers.

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The tunnel junction is a. Novel Approach to Modeling Tunnel Junction Diodes Using Silvaco Atlas Software. junction device using the ATLAS device simulator by. infrared, silvaco ATLAS, simulation. 1. Introduction It has a higher electron effective mass rendering lower tunneling currents. passivated LWIR SLS diodes using ATLAS and extract surface related

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