

# Device Physics of Hydrogenated Amorphous Silicon Solar Cells

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Condition: New. Publisher/Verlag: VDM Verlag Dr. Müller | Metastability of a-Si:H Solar Cells | This paper discusses the device physics of as-deposited and light-soaked hydrogenated amorphoussilicon solar cells. The staebler-Wronski effect is the key issue in this paper. The metastability of a-Si:H solar cell is explained by a modified hydrogencollision model to explain the degradation of a-Si:Hafter some time light soaking. The key parameters are studied by experiments as well as computer simulation, both reach the agreement for our theory. Valence band tail model is used for our theory and simulation. For light soaked state, a defect is used for modeling. | Format: Paperback | Language/Sprache: english | 244 gr | 176 pp.





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