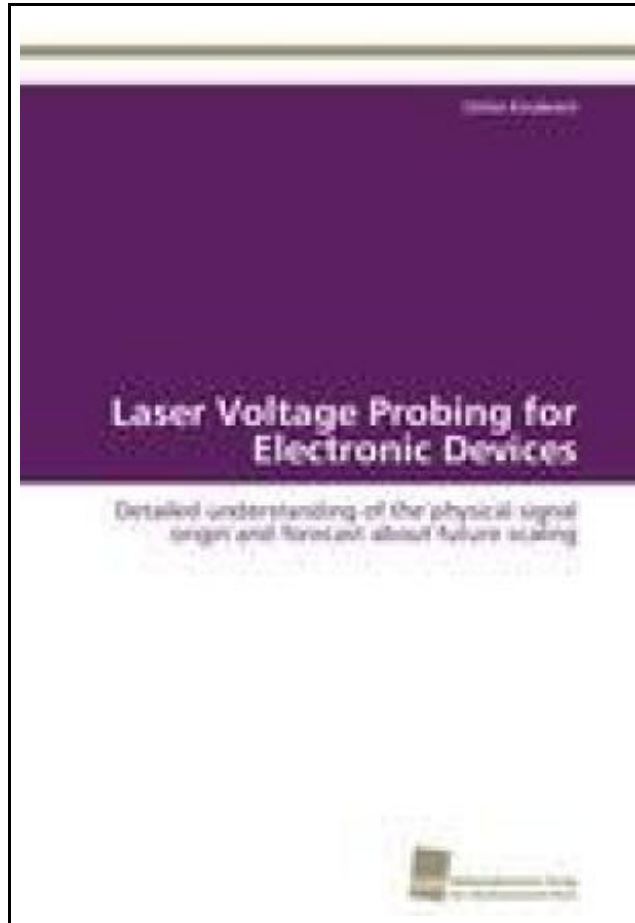


Laser Voltage Probing for Electronic Devices



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Reviews

Here is the best publication i have got go through until now. It is actually writter in simple phrases and never hard to understand. I realized this publication from my dad and i suggested this ebook to find out.

(Lorena White)

LASER VOLTAGE PROBING FOR ELECTRONIC DEVICES



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Südwestdeutscher Verlag Für Hochschulschriften AG Co. KG Mai 2014, 2014. Taschenbuch. Book Condition: Neu. 222x152x23 mm. This item is printed on demand - Print on Demand Neuware - The ongoing integration density increase changes the demands on failure analysis methods for ICs drastically. Laser Voltage Probing (LVP) is an all-optical laser-based technique that acquires waveforms through the silicon backside. Although widely used in failure analysis labs, the knowledge about LVP signal origin is still very low. A detailed investigation of the signal origin is presented, using a modified LVP setup, which employed a 1319 or 1064 nm CW laser. Three new measurement methods were introduced, extracting frequency-information with a spectrum analyzer in opposition to the standard time-domain waveform acquisition with an oscilloscope. Signal-to-voltage correlations and modulation amplitude and sign maps were performed for a broad spectrum of MOSFETs: from 10 μm (to study signal sources) to 65 nm gates (effects on structures with decreased dimensions). These low-noise frequency-domain measurement methods enabled very short signal acquisition times (seconds to minutes). A concise model, describing the interaction of laser light and device activity, was built, explaining the signal sources and enabling the forecast of signal levels for future technologies and scaling. 176 pp. Englisch.



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