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Semiconductor Device and Material Characterization
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SEMICONDUCTOR MATERIAL AND DEVICE CHARACTERIZATION
An important aspect of assessing the material quality and device reliability is the development and use of fast, nondestructive and accurate electrical characterization techniques to determine important parameters such as carrier doping density, type and mobility of carriers, interface quality, oxide trap density, semiconductor bulk defect density, contact and other parasitic resistances and oxide electrical integrity.

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Semiconductor characterization techniques - Wikipedia
material and device characterization is reviewed in depth. Advantages and disadvantages compared to other spectro-scopic techniques are addressed in view of the future trend in electronic devices. Noise Sources The primary noise sources in semiconductor materials and devices are thermal or Johnson noise, shot noise, 1/for

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