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Theory Defects Semiconductors Topics Applied Inelastic scattering and carrier capture by defects in semiconductors are the primary causes of hot-electron-mediated degradation of power devices, which holds up their commercial development. At the same time, carrier capture is a major issue in the performance of solar cells and light-emitting diodes.

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Theory of defects in semiconductors, (Topics in applied physics, Vol. 104), Softcover reprint of hardcover 1st ed. 2007 Topics in Applied Physics Series, Vol. 104 Coordinators: Drabold David A., Estreicher Stefan Language: Anglais

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All semiconductors, whether by design or by accident, contain defects. The fundamental properties of defects, such as impurities, native defects, and extended defects, affect a broad range of applications. These technologically important defects may be introduced during growth and processing. Electrical, optical, and magnetic phenomena related to defects have been observed experimentally and studied theoretically in a variety of materials.

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