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He also introduced the term "third generation photovoltaics" into the photovoltaic vernacular in his research monograph of this title (Green, 2003) discussing, self-consistently, all known approaches for improving cell efficiency above classic limits (Shockley and ...

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Structures of Silicon Solar Cells. Source: Applied Photovoltaics, 3rd Edition, Wenham, et al. Amorphous Silicon ("a-Si") is the third major kind of thin-film solar cell. In contrast to crystalline silicon solar cells, a-Si does not have an overall crystal structure (see chart above). Low efficiency is a major challenge for a-Si solar cells.

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