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chapter provides the

basic concepts and

terminology for

understanding

semiconductors. Of

particular importance

are the concepts of

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energy band, the two kinds of electrical charge carriers called electrons and holes, and how the carrier concentrations can be controlled with the addition of dopants.

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AlGaAs passivates the

surface states and

thereby increases the

photogeneration

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cell between two

different bandgap

semiconductors (GaAs

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