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Fundamentals of Carrier Transport is an accessible introduction to the behavior of charged carriers in semiconductors and semiconductor devices. It is written specifically for engineers and students without an extensive background in quantum mechanics and solid-state physics.

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1) Understand advanced semiconductor fundamentals such as bandstructure, density-of-states, quantum confinement, and carrier scattering. 2) Understand the Landauer Approach to carrier transport and be able to use it to treat carrier transport in nanoscale structures as well as in bulk semiconductors.

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page 129: change "Carrier's" to "Carriers" in the caption of Fig. 3.4, page 129: in Fig. 3.4, the streamlines should not cross. page 135: in Fig. 3.5 "E z" in italics is very faint. page 140: change "g(p2)" to "g(p)" in eq. (3.70).

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