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1) Understand advanced semiconductor fundamentals such as bandstructure, density-of-states, quantum confinement, and

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carrier scattering. 2)
Understand the
Landauer Approach to
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Transportation/About 3

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This book is aimed at
undergraduate civil
engineering students,
though the material
may provide a useful
review for practitioners
and graduate students
in transportation.

Typically, this would be
for an Introduction to
Transportation course,
which might be taken
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We will refer to this transport mechanism as carrier drift. In addition, carriers also move from regions where the carrier density is high to regions where the carrier density is low. This carrier transport mechanism is due to the thermal energy and the associated random motion of the carriers.

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Carrier Transport

Any freight carrier or logistics personnel contracted to ship hazardous materials must have a DOT Hazmat Certification. Every carrier has its own rules regarding hazmat transportation, so employees will need to look up these regulations ahead of time and work with the carriers to ensure that they're being followed.

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- dBc - relative to carrier
- $10\text{mW} = 10\text{dBm}$, $0\text{dBm} = 1\text{mW}$
- $-110\text{dBm} = 1\text{E}-11\text{mW} = 0.00001\text{nW}$
- For a 50 ohm load : -110dBm is $0.7\mu\text{V}$, i.e., not much!

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- Rule of thumb:
Double the power = 3 dB increase
Half the power = 3 dB decrease

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