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# TCAD-Inspired Compact Modeling Approach

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# Outline

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- 1. Introduction
- 2. Arbitrary cross-section
- 3. Density-gradient model
- 4. Conclusion

# Conclusion

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- TCAD-inspired compact modeling approach
  - Starting from the governing equations
  - Compact model as an integrated form
  - Example1) Substrate partitioning scheme for an arbitrary cross-section
  - Example2) Density-gradient model
- When to stop(/model)?
  - It's the point where we need the insight!