## Fundamentals of Nanoelectronics, I: The New Perspective

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L1.1 Quiz

## <u>Answers</u>

## 1.1. Introduction

- **1.1a.** In an elastic or Landauer resistor, the Joule heat I<sup>2</sup>R is dissipated in the
  - (a) source and drain
  - (b) drain only
  - (c) source only
  - (d) channel
  - (e) none of the above
- **1.1b.** In our new perspective, electrons flow because
  - (a) there is an electric field in the source and drain
  - (b) there is an electric field in the channel
  - (c) source wants to fill the channel, drain wants to empty it
  - (d) source and drain both want to fill the channel
  - (e) none of the above