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Principles of Semiconductor Devices  $\tau_p$  Hole lifetime  $s$   $\phi_B$  Barrier height  $V$   $\phi_F$  Bulk potential  $V$   $\phi_i$  Built-in potential of a p-n diode or Schottky diode  $V$   $\phi_s$  Potential at the semiconductor surface  $V$   $\phi_M$  Workfunction of the metal  $V$   $\phi_{MS}$  Workfunction difference between the metal and the semiconductor  $V$   $\phi_S$  Workfunction of the semiconductor  $V$

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Description. Ideal for undergraduate and beginning graduate students in electrical engineering, Understanding Semiconductor Devices provides a solid grounding in both fundamental principles and practical skills. The text features intuitive explanations and a motivating "electronics-to-physics" approach that progresses from basic to more abstract concepts.

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