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Designed for upper-level undergraduate and graduate courses, Principles of Semiconductor Devices, Second Edition, presents the semiconductor-physics and device principles in a way that upgrades classical semiconductor theory and enables proper interpretations of numerous quantum effects in modern devices. The semiconductor theory is directly linked to practical applications, including the links to the SPICE models and parameters that are commonly used during circuit design.

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φ B Barrier height V φ F Bulk potential V φ i Built-in potential of a p-n diode or Schottky diode V φ s Potential at the semiconductor surface V Φ M Workfunction of the metal V Φ MS Workfunction difference between the metal and the semiconductor V Φ S Workfunction of the semiconductor V
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This site has been developed by Professor Jasprit Singh. and solutions to EECS (Introduction to Semiconductor Device Theory) being taught in Fall
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