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Description. Sima Dimitrijevic is Professor at the Griffith School of Engineering and Deputy Director of Queensland Micro- and Nanotechnology Centre at Griffith University in Australia. He is the author of Understanding Semiconductor Devices (OUP, 2000) as well as numerous other publications in the areas of MOSFET technology, modeling, and applications.

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The fundamentals of semiconductors are typically found in textbooks discussing quantum mechanics, electro-magnetics, solid-state physics and statistical thermodynamics. The purpose of this chapter is to review the physical concepts, which are needed to understand the semiconductor

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