



Introduction to VLSI Silicon Devices: Physics, Technology and Characterization (Hardback)

By Badih El-Kareh, R.J. Bombard

Kluwer Academic Publishers, United States, 1986. Hardback. Condition: New. 1986 ed.. Language: English . Brand New Book ***** Print on Demand *****.There was a long felt need for this book in industrial and academic institutions. It provides new engineers, as well as practicing engineers and advanced laboratory personnel in the field of semiconductors a clear and thorough discussion of state-of-the-art silicon devices, without resorting to the complexity of higher mathematics and physics. This difficult task was made possible by detailing the explanation of equations that describe the device operation and characteristics without endeavoring their full derivation. This is reinforced by several problems which reflect practical cases observed in the laboratory. The problems are given after introducing a major equation or concept. They are arranged in the order of the text rather than in the order of difficulty. The answers to most of the problems are given in order to enable the student to self-check the method used for the solutions. The illustrations may prove to be of great help to newcomers when dealing with the characterization of real devices and relating the measured data to device physics and process parameters. The new engineer will find the book equivalent to on...



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