



Advanced Nanoscale ULSI Interconnects: Fundamentals and Applications

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In Advanced ULSI interconnects – fundamentals and applications we bring a comprehensive description of copper-based interconnect technology for ultra-large scale integration (ULSI) technology for integrated circuit (IC) application. Integrated circuit technology is the base for all modern electronics systems. You can find electronics systems today everywhere: from toys and home appliances to airplanes and space shuttles. Electronics systems form the hardware that together with software are the bases of the modern information society. The rapid growth and vast exploitation of modern electronics system create a strong demand for new and improved electronic circuits as demonstrated by the amazing progress in the field of ULSI technology. This progress is well described by the famous “Moore’s law” which states, in its most general form, that all the metrics that describe integrated circuit performance (e. g. , speed, number of devices, chip area) improve exponentially as a function of time. For example, the number of components per chip doubles every 18 months and the critical dimension on a chip has shrunk by 50% every 2 years on average in the last 30 years. This rapid growth in integrated circuit technology results in highly complex integrated circuits with an increasing number of interconnects on chips and between the chip and its package. The complexity of the interconnect network on chips involves an increasing number of metal lines per interconnect level, more interconnect levels, and at the same time a reduction in the interconnect line critical dimensions.

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