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High Performance Integrated Circuit Design begins by discussing the dominant role of on-chip interconnects and provides an overview of technology scaling. The book goes on to cover data signaling, power management, synchronization, and substrate-aware design.

High Performance Integrated Circuit Design

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An integrated circuit or monolithic integrated circuit (also referred to as an IC, a chip, or a microchip) is a set of electronic circuits on one small flat piece (or "chip") of semiconductor material that is normally silicon.The integration of large numbers of tiny MOS transistors into a small chip results in circuits that are orders of magnitude smaller, faster, and less expensive than those ...

Integrated circuit - Wikipedia

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A field-programmable gate array (FPGA) is an integrated circuit designed to be configured by a customer or a designer after manufacturing – hence the term "field-programmable".The FPGA configuration is generally specified using a hardware description language (HDL), similar to that used for an application-specific integrated circuit (ASIC). Circuit diagrams were previously used to specify ...

Field-programmable gate array - Wikipedia

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Integrated Circuit Design Flow The process of chip design is very complex and its understating requires many years of study and practical experience. From a digital integrated circuit design perspective, it could be divided into different hierarchies as shown in Fig.3 where the problems are examined at several different levels.

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