

## *Digital Integrated Circuits Design Perspective Solution Manual*

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### **Digital Integrated Circuits Design Perspective**

An application-specific integrated circuit (ASIC / ' eɪ s ɪ k /) is an integrated circuit (IC) customized for a particular use, rather than intended for general-purpose use. For example, a chip designed to run in a digital voice recorder or a high-efficiency bitcoin miner is an ASIC. Application-specific standard products (ASSPs) are intermediate between ASICs and industry standard ...

### **Application-specific integrated circuit - Wikipedia**

Very-large-scale integration (VLSI) is the process of creating an integrated circuit (IC) by combining millions of transistors or devices into a single chip. VLSI began in the 1970s when complex semiconductor and communication technologies were being developed. The microprocessor is a VLSI device. Before the introduction of VLSI technology most ICs had a limited set of functions they could ...

### **Very Large Scale Integration - Wikipedia**

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Section 2.2 Manufacturing CMOS Integrated Circuits 35 shown in Figure 2.1 features ann-well CMOS process, where the NMOS transistors are implemented in thep-doped substrate, and the PMOS devices are located in the n-well. Increasingly, modern processes are using adual-well approach that uses bothn- and p- wells, grown on top on a epitaxial layer, as shown in Figure 2.2.

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### **Silicon on Insulator - an overview | ScienceDirect Topics**

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### **Verilog Designers Guide - Doulos**

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