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### **1 Table Of Contents Digital Integrated Circuits— A Design ...**

Integrated circuit design, or IC design, is a subset of electronics engineering, encompassing the particular logic and circuit design techniques required to design integrated circuits, or ICs. ICs consist of miniaturized electronic components built into an electrical network on a monolithic semiconductor substrate by photolithography.

### **Integrated circuit design - Wikipedia**

The lecture notes for this course are closely based on the course textbook: Rabaey, Jan, Anantha Chandrakasan, and Bora Nikolic. Digital Integrated Circuits: A Design Perspective. 2nd ed. Prentice Hall, 2002.

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Integrated circuits can be classified into analog, digital and mixed signal, consisting of both analog and digital signaling on the same IC. Digital integrated circuits can contain anywhere from one to billions of logic gates, flip-flops, multiplexers, and other circuits in a few square

### **Integrated circuit - Wikipedia**

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