

### digital integrated circuits rabaey pdf

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, normally silicon. The integration of large numbers of tiny transistors into a small chip results in circuits that are orders of magnitude smaller, cheaper, and faster than those constructed of ...

### Integrated circuit - Wikipedia

This book is all about the design of digital circuits. Topics covered includes: Designing Digital Circuits, Designing Combinational Circuits With VHDL, Computer-Aided Design, VHDL Language Features, Building Blocks of Digital Circuits, Sequential Circuits, State Machines with Data, Verifying Circuit Operation, Small Scale Circuit Optimization, Implementing Digital Circuit Elements ...

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Whether you are a high school student looking forward to graduating and moving on to a career in electrical engineering or someone looking to go back and study a different field than the one in which you currently work, it can be difficult to find programs and courses suited to your needs that also are affordable.

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A latch-up is a type of short circuit which can occur in an integrated circuit (IC). More specifically it is the inadvertent creation of a low-impedance path between the power supply rails of a MOSFET circuit, triggering a parasitic structure which disrupts proper functioning of the part, possibly even leading to its destruction due to overcurrent. A power cycle is required to correct this ...

### Latch-up - Wikipedia

The first monolithic integrated circuits; Who invented the IC? Baker, R. J. CMOS: Circuit Design, Layout, and Simulation, Third Edition. Wiley-IEEE. 2010.

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