

Design Of Integrated Circuits For Optical Communications

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The design of integrated circuit is perhaps one of the most complex stages in the development process of game and entertainment infrastructure forming a vital part of the entertainment technology. Increasingly, chip designers are discovering ways of implementing functions hitherto done with massive codes of computer programs inside integrated circuits.

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The only book on integrated circuits for optical communications that fully covers High-Speed IOs, PLLs, CDRs, and transceiver design including optical communication. The increasing demand for high-speed transport of data has revitalized optical communications, leading to extensive work on high-speed device and circuit design.

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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. IC design can be divided into the broad categories of digital and analog IC design. Digital IC design is to produce components such as microprocessors, FPGAs, memo

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Preface of Design of Integrated Circuits for Optical Communications Second Edition By Behzad Razavi book: The field of optical communications has experienced some change since the first edition of this book was published. While the fundamentals remain the same, the field has tried to find a place in mass markets and, specifically, spawned ...

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Design of integrated circuits for optical communications / Behzad Razavi. — Second edition. pages cm Includes index. ISBN 978-1-118-33694-6 (hardback) 1. Optoelectronic devices. 2. Optical communications—Equipment and supplies. 3. Integrated optics. 4. Integrated circuits—Design and construction. I. Title. TK8320.R39 2012 621.3827—dc23 2012013971

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Design of Integrated Circuits for Optical Communications About The Book: The only book on integrated optical communication circuits that fully covers high-speed IOs, PLLs, CDRs, and transceiver design including optical communications has led to increasing demand for high-speed data transfer to activate optical communications, resulting in intensive work on high-speed device design And the circle.

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Integrated circuit (IC), also called microelectronic circuit, microchip, or chip, an assembly of electronic components, fabricated as a single unit, in which miniaturized active devices (e.g., transistors and diodes) and passive devices (e.g., capacitors and resistors) and their interconnections are built up on a thin substrate of semiconductor material (typically silicon).

~~integrated circuit | Types, Uses, & Function | Britannica~~

Integrated Systems and Circuits Design Reaching new application areas For about five decades, integrated circuits (IC, microchips) have now been the key technologies for electronic systems in many application areas, ranging from data processing to telecommunication and

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automobile electronics.

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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~~

Layout designs of integrated circuits are a field in the protection of intellectual property. In United States intellectual property law, a "mask work" is a two or three-dimensional layout or topography of an integrated circuit, i.e. the arrangement on a chip of semiconductor devices such as transistors and passive electronic components such as resistors and interconnections. The layout is called a mask work because, in photolithographic processes, the multiple etched layers within actual ICs are

~~Integrated circuit layout design protection - Wikipedia~~

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Why is the Layout Design of an Integrated Circuit important? New layout designs of integrated circuits aim mainly at improving the performance efficiency of the circuitry within the limits of the materials and technologies being used. This should result in more functions being carried out with lower power consumption on the same amount of semi-conductor material.

~~Integrated Circuits—Intellectual Property Office~~

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