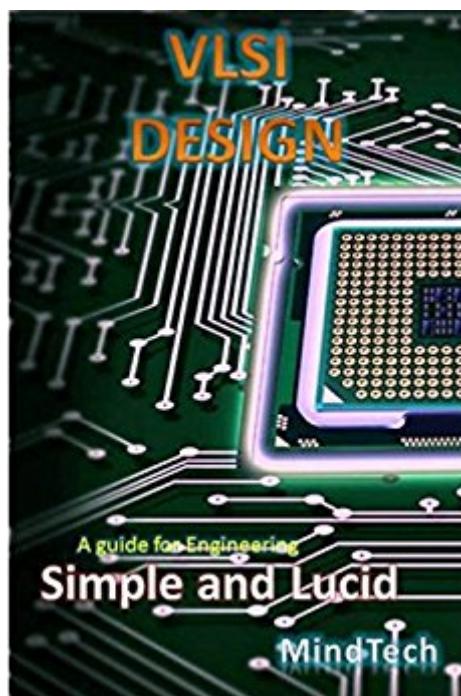The book was found

VLSI DESIGN SIMPLE AND LUCID EXPLANATION: Vlsi Design For Students

Synopsis

This book explains Very Large Scale Integration (VLSI) in a simple and lucid style.The book is very beneficial for engineering students and also in Preparing for GATE exam. It is divided into 5 modules:Module 1Process steps in IC fabrication: Silicon wafer preparation-Diffusion of impurities-physical mechanism-ion implantation- Annealing process- Oxidation process-lithography-Chemical Vapour Deposition -epitaxial growth

â "reactors-metallization-patterning-wire bonding -packaging Module 2 Monolithic components: Isolation of components-junction isolation and dielectric isolation. Monolithic diodes- schottky diodes and transistors-buried layer-FET structures- JFET-MOSFET-PMOS and NMOS. Control of threshold voltage- silicon gate technology- monolithic resistors-resistor design-monolithic capacitors- design of capacitors- IC crossovers and vias. Module 3 CMOS technology: CMOS structure-latch up in CMOS, CMOS circuits-combinational logic circuit-invertor- NAND-NOR-complex logic circuits, full adder circuit. CMOS transmission gate(TG)T-realization of Boolean functions using TG. Complementary Pass Transistor Logic (CPL)-CPL circuits: NAND, NOR-4 bit shifter. Basic principle of stick diagrams. Module 4 CMOS sequential logic circuits: SR flip flop, JK flip flop, D latch circuits. BiCMOS technology-structure-BiCMOS circuits: inverter, NAND, NOR-CMOS logic systems-scaling of MOS structures-scaling factors-effects of miniaturization. Module 5 Gallium Arsenide Technology: Crystal structure-doping process-channeling effect- MESFET fabrication-Comparison between Silicon and GaAs technologies. Introduction to PLA and FPGA

Book Information

Enhanced Typesetting: Not Enabled

Customer Reviews

simple and easy to understand . usefull for engineers . great work !!

It is a very helpful textbook that I think this book will benefit the students to know more about VLSI design

Maybe the contents are good, but all figures cannot be displayed on my kindle. I'm not sure how to fix this issue. Please fix, thanks.

VLSI DESIGN SIMPLE AND LUCID EXPLANATION: vlsi design for students Lucid Dreaming Easy Beginners Guidebook to Understand, Practice, and Master Lucid Dreaming With Advanced Tips and Techniques (Lucid Dreaming, Dreams, Mental ... Astral Projections, Self Help) Dreams: Interpreting Your Dreams and How to Dream Your Desires- Lucid Dreaming, Visions and Dream Interpretation (Dreams, Lucid dreaming, Visions,) Dreams: Discover the Meaning of Your Dreams and How to Dream What You Want - Dream Interpretation, Lucid Dreaming, and Dream Psychology (+BONUS) (Dream Analysis, Dream Meanings, Lucid Dream) how to do and use the correct lucid dream: How To Easily Lucid Dream Tonight! (Best Guide Of 2017) How to Master Lucid Dreaming: Your Practical Guide to Unleashing the Power of Lucid Dreaming Circuits, Interconnections, and Packaging for Vlsi (Addison-Wesley VLSI systems series) Hygge: The Complete Book of Hygge: A Real Daneâ ™s Explanation of How to Live the Simple and Amazing Hygge Lifestyle, and Find Happiness Lucid Dreaming, Plain and Simple: Tips and Techniques for Insight, Creativity, and Personal Growth Learning FPGAs: Digital Design for Beginners with Mojo and Lucid HDL Vol.1. Explanation of Sumerian and Assyrian Tablets, Slabs and seals and Translation of Cuneiform Inscriptions (Illustrated History of the Civilizations, ... Middle East, Near East, and Asia Minor.) Explanation of the 1:1 000 000 geological map, fourth edition, 1984: The geology of the Republics of South Africa, Transkei, Bophuthatswana, Venda, and Ciskei and the kingdoms of Lesotho and

Swaziland Modern VLSI Design: IP-Based Design (4th Edition) Curing Chronic Fatigue Syndrome and Fibromyalgia with Paleo (Recipes Included): A Thorough Explanation of the Diseases and a Guide Plus Recipes on how to Become Pain-Free Inflation, Unemployment, and Government Deficits: End Them: An economist's readable explanation of America's economic malaise and how to quickly end it Kabbalah Dictionary: Translation and explanation of terms and concepts of the Kabbalah Whatever Happened to Penny Candy? A Fast, Clear, and Fun Explanation of the Economics You Need For Success in Your Career, Business, and Investments (An Uncle Eric Book) Stick and Rudder: An Explanation of the Art of Flying Heal Thyself: An Explanation of the Real Cause and Cure of Disease Luther's Small Catechism: With Explanation and Luther's Preface