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ability to convert infrared light into energy, Scientists based in Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), Bengaluru have discovered... 198 KB (22,809 words) - 07:42, 16 March 2024

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~~How~~ Are Microchips Made? - ~~How~~ Are Microchips Made? by Interesting Engineering 6,262,273 views 2 years ago 5 minutes, 35 seconds - — How Are Microchips Made? Ever wondered how those tiny marvels powering our electronic world are made?

How long it takes to make a microchip

How many transistors can be packed into a fingernail-sized area

Why silicon is used to make microchips

How ultrapure silicon is produced

Typical diameter of silicon wafers

Importance of sterile conditions in microchip production

First step of the microchip production process (deposition)

How the chip's blueprint is transferred to the wafer (lithography)

How the electrical conductivity of chip parts is altered (doping)

How individual chips are separated from the wafer (sawing)

Basic components of a microchip

Number of transistors on high-end graphics cards

Size of the smallest transistors today

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Analog IC Design Manager - Chat w/ Rajasekhar - Analog IC Design Manager - Chat w/ Rajasekhar

by Tejas Ketkar 2,520 views 1 month ago 1 hour, 49 minutes - I was honored to have a chat with Rajasekhar, who has been in the semiconductor industry for over 16 years. He is the inventor of ...

Introduction, Background and Career Progression

Time in Germany

Job role at Rambus

What prompted you to go for a PhD after years in the industry?

Approach towards studying circuits and motivation for higher studies

Book Recommendation for Analog IC design

Beneficial to go for a PhD and then join the industry or directly take up a job and then rise up the ranks in the industry

Importance of resources

Benefits of working in academia (as a student or otherwise)

Benefits of publications

"All models are approximate, but few are useful" ; Remembering the assumptions

Not from an English-Medium background

Book Recommendations

The forgotten frequency compensation technique

His favorite circuit topics

How to get patents and papers being in the industry? Publication vs Patents?

Role of Managers? Types of Managers

Best thing about Indian universities vs Foreign universities

MS as a gateway to abroad ; MS abroad vs India

Foreign university connections with Indian universities (easy selection)

Unable to match Indian Pay in Europe

Burning desire to get into IIT

Migrating abroad after a Master's from India

Someone who wanted to settle in USA, but didn't want to pay a hefty fees (how she did it)

Secret way to get selected at universities abroad

India is the place to be

High-Speed SerDes Resources

In Digital everything is possible, but at the cost of higher power

Analog vs Digital debate

Additional SerDes resources

TU Delft is one of the best universities for analog/RF

Example of someone in the industry who published wonderful papers

Startup in semiconductors

Service-based semiconductor companies in India

EDA is very expensive ; license costs; Cheaper alternatives from Europe

Importance of Network and Connections

Interview at senior levels vs fresher interviews

"Experienced people are SPICE monkeys", -Dr. Boris Murmann

Expectations from an experienced designer vs a fresh designer

24 Polyomino Koydo | FLN BOX (GJ) - 24 Polyomino Koydo | FLN BOX (GJ) by CCL IITGN 6,973 views 4 weeks ago 1 minute, 14 seconds - FLN Educational Box - Gujarat (GJ). Foundational Literacy and Numeracy Educational Box.

What is an Integrated Circuit (IC) - What is an Integrated Circuit (IC) by Electrical Electronics

Applications 60,530 views 1 year ago 8 minutes, 10 seconds - In this video, I will explained to you general basic information about **Integrated circuits**,. They are one of the indispensable **circuit**, ...

Solid-State Electronics

The Pins of the Integrated Circuits Are Numbered

Internal Structure of an Integrated Circuit

Internal Structure

Nand Gate

What Is An Integrated Circuit (IC) - What Is An Integrated Circuit (IC) by Aatik's lab 280,171 views 5 years ago 4 minutes, 45 seconds - Hi guys in this video we will discuss about what is an **ic**, , how it works , where to use them and can we even make one by ourself.

Introduction

Types of IC

Components of IC

Conclusion

Transistors Explained - How transistors work - Transistors Explained - How transistors work by The Engineering Mindset 18,318,491 views 3 years ago 18 minutes - Transistors how do transistors work. In this video we learn how transistors work, the different types of transistors, electronic **circuit**, ...

Current Gain

Pnp Transistor

How a Transistor Works

Electron Flow

Semiconductor Silicon

Covalent Bonding

P-Type Doping

Depletion Region

Forward Bias

How an Integrated Circuit is made - How an Integrated Circuit is made by JAES Company 57,068 views 2 years ago 5 minutes, 26 seconds - JAES is a company specialized in the maintenance of industrial plants with a customer support at 360 degrees, from the technical ...

How Integrated Circuits Are Made

Wire Bonding

Miniaturization

Lithography

Doping

Semiconductor Theory Questions | with Answers | Electrical Engineering Mcqs - Semiconductor Theory Questions | with Answers | Electrical Engineering Mcqs by PKR TECH CLASSES 162,521 views 5 years ago 15 minutes - SSC JE ELECTRICAL MCQs || SPECIAL QUIZ SERIES PART-14 || 3000+ EE MCQs || By:- Pravendra ALSO IMP. FOR UPPCL ...

Types of IC | IC Packages | SMD vs DIP ICs | Integrated Circuit Mounting Styles | SMD IC Types | DIP - Types of IC | IC Packages | SMD vs DIP ICs | Integrated Circuit Mounting Styles | SMD IC Types | DIP by Engineering Think it Simple 47,613 views 3 years ago 7 minutes, 3 seconds - The video explain various DIP and SMD **IC**, packages, styles and mounting techniques. Types of **IC**, Packages. Types of **IC**,.

Intro

Integrated Circuits (IC) Packaging

Through-Hole

Surface-Mount ICs

Through hole Package

Dual in line Package (DIP)

Single in line Package (SIP)

Pin Grid Array (PGA)

Surface Mount IC's (SMD)

Small Outline Package (SOP)

Quad Flat Package (QFP)

Quad Flat No Leads Package (QFN)

Ball Grid Array Package (BGA)

Land Grid Array Package (LGA)

Best YouTube channels and Books for 1st year of BTECH | Hand Made notes Included - Best YouTube channels and Books for 1st year of BTECH | Hand Made notes Included by Prayush on the GO 465,447 views 2 years ago 11 minutes, 21 seconds - In this video Prayush Rai, a 2nd year student at NSUT(NSIT) will share best YouTube channels for 1st year of BTECH and all ...

Intro

Konsi Book Use kare?

Engineering Mathematics

Basics of Mechanical Engineering

Physics

Basics of Electrical Engineering

Computer Programming

Engineering Drawing

Chemistry (EVS)

Hand Written Notes

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JNTU NRCM R18 LICA UNIT1 INTEGRATED CIRCUITS Lecture1 - JNTU NRCM R18 LICA UNIT1 INTEGRATED CIRCUITS Lecture1 by 2YEAR LICA 138 views 1 year ago 14 minutes, 3 seconds - Linear integrated circuits, -JNTU-ECE-UNIT1-LECTURE1.

Integrated Circuits - Integrated Circuits by Aasoka 65,779 views 5 years ago 6 minutes, 11 seconds - MBD Alchemie presents a 3D Physics video that is appropriate for Grade 12. This video with its outstanding graphics and ...

Introduction

Integrated Circuits

Digital ICS

Manufacturing

Recap

Introduction and Principle of Operation of PLL - Phase Lock Loop - Linear Integrated Circuits - Introduction and Principle of Operation of PLL - Phase Lock Loop - Linear Integrated Circuits by Ekeeda 53,657 views 4 years ago 10 minutes, 4 seconds - Introduction and Principle of Operation of PLL Video Lecture from Phase Lock Loop Chapter of **Linear Integrated Circuits**, Subject ...

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LIC-L1-U1-1.1 Operational Amplifier, circuit symbol and its terminals - LIC-L1-U1-1.1 Operational Amplifier, circuit symbol and its terminals by NIT POLYTECHNIC , NAGPUR 6,101 views 2 years ago 16 minutes - Chapter 1-Fundamentals of Operational Amplifier.

LINEAR INTEGRATED CIRCUITS (MODULE 1) - LINEAR INTEGRATED CIRCUITS (MODULE 1) by UNPROFESSIONAL ENGINEERS 1,253 views 2 years ago 9 minutes, 41 seconds - MODULE 1 - OPERATIONAL AMPLIFIER Schematic Symbol Pin Diagram Block Diagram Basic Op amp Characteristics Transfer ...

Linear Integrated Circuits-Teaser Video - Linear Integrated Circuits-Teaser Video by EzEd Channel 3,364 views 10 years ago 1 minute, 31 seconds - Here is a SNEAK PEEK of the **Linear Integrated Circuits**, Video,to watch the entire video log on to www.ezed.in.

Linear Integrated Circuits/ IC Introduction - Linear Integrated Circuits/ IC Introduction by Electrical Engineering simplified 91 views 1 year ago 1 minute, 53 seconds - This video explains the introduction of **Linear IC**,.

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