- 1. 锁性时不复杂线 LTI system = Linear Time Invariant system
 An LTI system, in a simplified sense, will exhibit two behaviors:
 - 1) Time Invariance The system must behave the same in any two trails in time if the inputs and starting conditions are identical.
 - 2 Additive Superposition if you excite a system with input a and yet output A, then excite it with input b and get 13, then you wan you excite it with input (a+b), then you should get output (A+B).
- 2. 调浏器与解调器 Modulatur & Demo dulatur

Modulation: In electronics and telecommunications, modulation is the process of varing one or more properties of a periodic waveform, called the carrier signal, with a modulating signal that typically contains information to be transmitted.

3. 离散时间信号和连续时间信号 Discrete-time & Continuous - time Signals

Discrete time and continous time are two alternative frameworks within which to model variables that evolve over time.

Discrete time views values of variables as occurring at district, separate points in time", or equivalently as being unchanged throughout each non-zero region of time.

· Continuous time views variable as having a particular value for potentially only an infinitesimally short amount of time. Between any two points in time

there are an intinite number of other ports of time.

Wireless Fidelity

4. 元线局下成网 WLAN = Wireless Local Apea Network

- WLAN is a wireless computer network that links two or more devices using 社会教育
- a wireless distribution method (often spread-spectrum or OFOM radio) within
- a limited area such as a home, school, computer laboratory or office building.

」 无限脉冲倾应 Infinite Ruse Response = IIR 有限脉冲响应 Finite Impulse Response = FIR

In signal processing, a twite impulse response tilter is a filter whose impulse response (or response to any timite length impulse) is of finite obviation, because it settles to zero in thite time. This is in contrast to infinite impulse response filters, which may have internal teedback and may continue to respond indefinitely (usually elecarny).



6. 附中间应和软件的应 impulse response & frequency response

In signal processing, the impulse response, or impulse response function, of a dynamic system is its output when presented with a brief input signal, called an impulse.

an impulse.

Frequency response is the quantitative measure of the output spectrum of a system or device in response to a stimulus, and is used to characterized the dynamics of the system.

7. 全球论性条件 GPS = Global Positioning System

8. 收额中断 Break Point.

In software development, a breakpoint is an intentional stupping or pausing place in a program, put in place for debugging purposes. It is also sometimes simply referred to us a pause.

- 9. 通用部分总证 USB = Universal Servial Bus X USB is an industry standard develop that defines the cables, connectors and communications protocals used in a bus for connectsion, communication, and power supply between computers and electronic devices.
- 10. 面向对象编辑. Object- oriented programming
- 11. 附屬個好 PWM = Pulse-Width Modulation PDM = Pulse-Duration Modulation
- 12. 1275/1975/2 electromagnetic interference EMI

 XEMI, also called radio-frequency interference when in the radio frequency spectrum, is a disturbance generated by an external source that affects an electrical circuit by electromagnetic induction, electrostatic coupling or conduction

13. i用环反馈条件 Closed-loop feedback system

14. FPGA Field-Programmable Grate Array 海域可稀鑑逻辑门符列 🖈

A FPGA is an integrated circuit designed to be configured by a customer or a designer after manufacturing — hence the term "field-programmable". It contains an array of programmable logic blocks, and a hierarchy of reconfigurable interconnects (可能可能是可以完成了) that allow the blocks to be "wired together", like many logic gates that can be inter-wired in different configurations.

15. Medium Access Control Protocol 媒体约向控制协议

16. Arithmetic Logic Unit 草状逻辑单元

17. 运算放大器 operational amplifier

An op-amp is a DC-wupled high-gain electronic voltage amplifier with a differential input and, usually, a sigle-ended output. It produces an output potential that is typically hundreds of or thousands of times larger than the potential chifference between its rhout terminals.

output potential 药片电位.

17. 集成电路 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 semi-conductor material (typically silicon).

Digital Signal Processing 1823783888 manipulation of signals, usually Digital signal processing is the numerical manipulation of signals, usually with the intention to measure, filter, produce or compress continuous analog with the intention to measure, filter, produce or compress continuous analog with the intention to measure, filter, produce of digital signals to represent these signals. It is characterized by the use of digital signals to represent these signals as discrete time, discrete frequency, or other discrete domain signals, signals as discrete time, discrete frequency, or other discrete domain signals, in the form of a sequence of numbers or symbols to permit the digital processing of these signals.

20. Digital Image Processing 数字图像处理

Digital image processing is the use of computer algorithms to perform image processing on digital rimages. As a subcategory or field of digital signal processing, digital image processing has many advantages over analog signal processing. It allows a much wider range of algorithms to be applied image processing. It allows a much wider range of algorithms to be applied to the input data and can awid problems such as the build-up of noise and signal distortion during processing. Since images are defined over two dimensions (perhaps more) digital image processing may be modeled in the form of multidimensional system.

21. Sp. System on Chip REXX System on Chip REXX on ridea of integrating all components of a computer System on Chip is an idea of integrated circuit. It may or other electronic system into a single integrated circuit. It may contain digital, analy, mixed-signal, and often radio frequency functions—contain digital, analy, mixed-signal, and often radio frequency functions—all on one chip. A typical application is in the area of embedded systems.

An application-specific integrated circuit (ASIC) is an integrated

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An application-specific integrated circuit (ASIC) is an integrated

for a puticular use, rather than intended for

general - purpose use. For example, a chip designed solely to run a

general - purpose use. For example, a chip designed solely to run a

cell phone is an ASIC. In contrast, the 7400 series and 4000 series

cell phone is an ASIC. In contrast, the 7400 series and 4000 series

integrated circuits are logic building blocks that can be used together

for use in many different applications.

23. 编程语言: programming language

A programming language language is a formal constructed language designed to communicate instructions to a machine, particularly a computer. It includes a vocabulary and set of grammatical rules for instructing a computer to perform specific tasks.

24. t操作款名: operating system

X An operating system is a set of computer programs that manage the hardware and coftware resources of a computer. An operating system processes raw system and user input and responds by allocating and managing tasks and internal system resources as a cervice to users and program of the system.

25. 局域网 Local Area Network

XA local area network is a computer network covering a small geographic area, like a home, office, or group of buildings. The defining characteristics of LANs, in contrast to wide area notworks (WANS), include their much higher data transfer rates, smaller geographic range, and a lack of a need for leased telecommunication

26. 硬件描述信号 HDL hordware description language

In electronics, a hardware description language is a specialized computer language used to describe the structure and behavior of electronic circuits, and most commonly, digital logic circuits. It enables a precise, formal description of an electronic curcuit that allows for the automated analysis and simulation of an electunic curcuit.

27. 女 反相器 inverter

In digital logic, on impact inverter or NOT gate is a logic gate which implements logical negation. It outputs a voltage representing the opposite logic-level to its imput.

28.☆ 锁在器 latch

A lutch is a storage circuit that is sensitive to pulse levels and can change State under the action of a specific input lovel pulse level.

29. 奴角酸器 flip-flip

In electronies, a thip-flop to a circuit that has two stable states and can be used to store state information. The circuit can be made to change state by signals upplied to one or more control inputs and will have one or two outputs.

30.☆ C倍新 CONST.

In computer programming, a constant is an identifier with an associated value which cannot be altered by the program during normal execution.

- 31. A Please explain why the cell phone signal gets worse when you enter the building. A building can be considered as a Farady (age cage (主好差等就) which is an enclosure formed by conductive material or by a mesh of such mexterial. It can block electric tields so the cell phone signal gets werse when you enter a building.
- 31. 女 野鴉 register.

Register is a component of a logic circuits used for the temporary storage of data.

32. 女 计数器. counter. In digital logic and computing, a counter is a device which stores the number of times a particular event or process has occurred, often in relationship to a clock signal and enables up-or-down wunting.

33. 锁相环 PLL: Phase-locked loop.

Phase-locked loop is a synchronous technique of trequency and phase realized by using the principle of feedback control. Its function is to keep the clock uneput of the circuit in sync with its external reference clock, generates an output signal whose phase is related to the phase of an input signal.