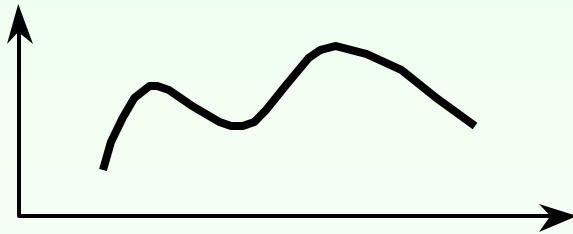
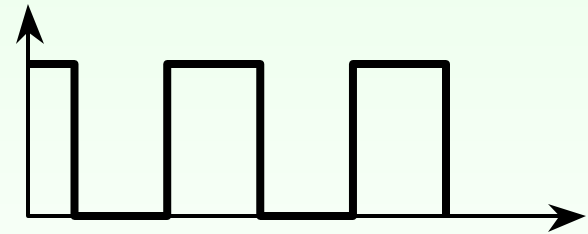


Introduction of Analog Circuit

Analog Signal: Continuous Signal in Time and Numerical **Digital Signal:** Discrete Signal in Time and Numerical



Waveform of Analog Signal

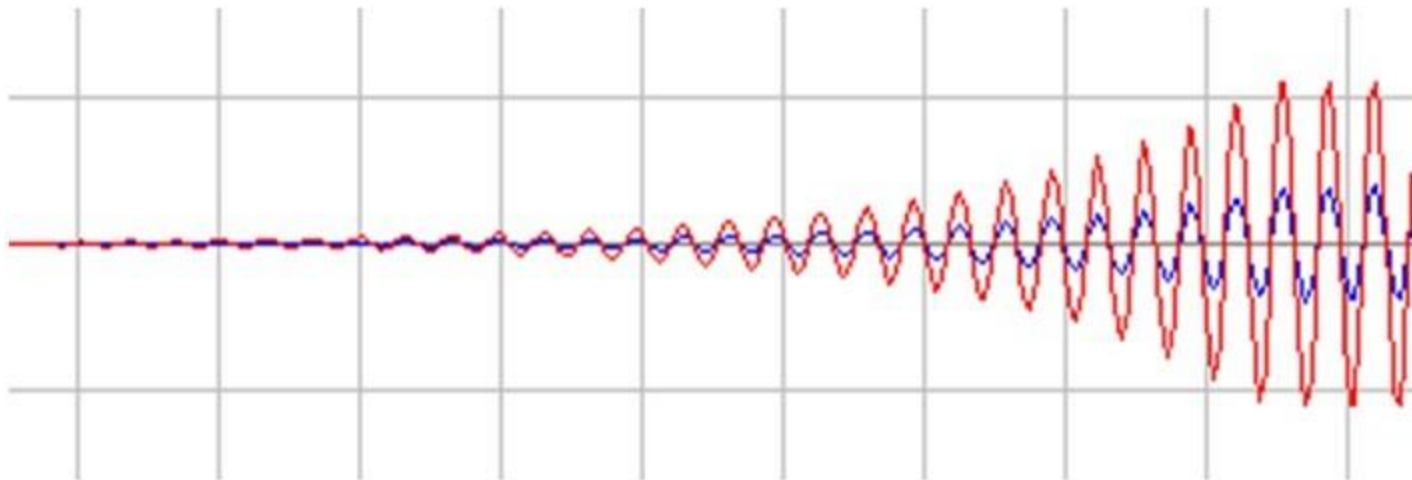
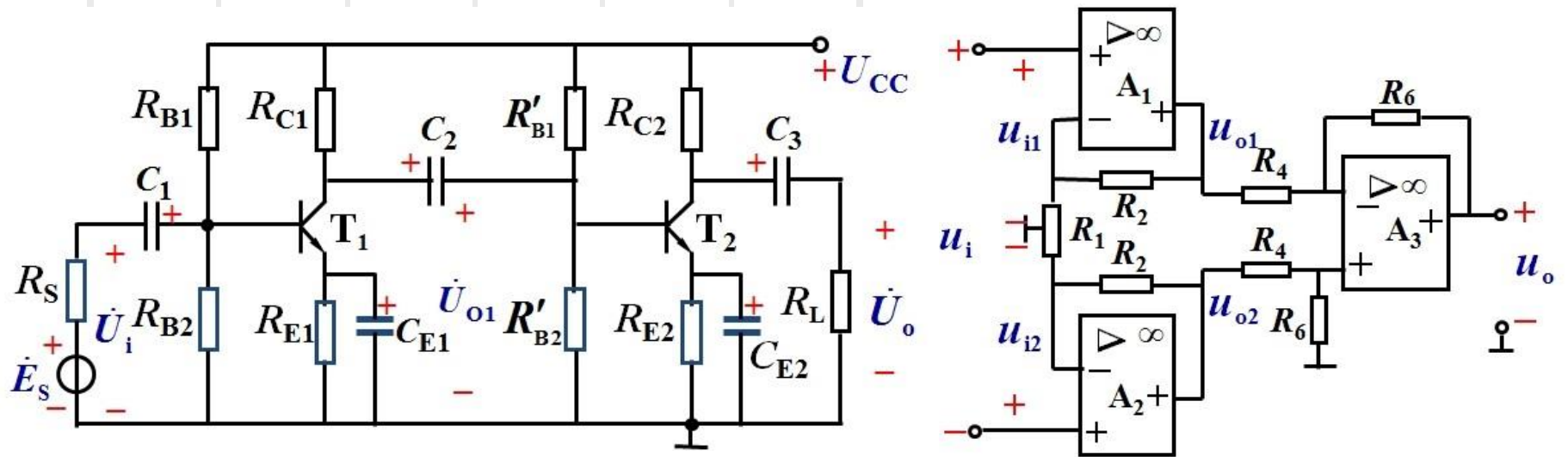


Waveform of Digital Signal

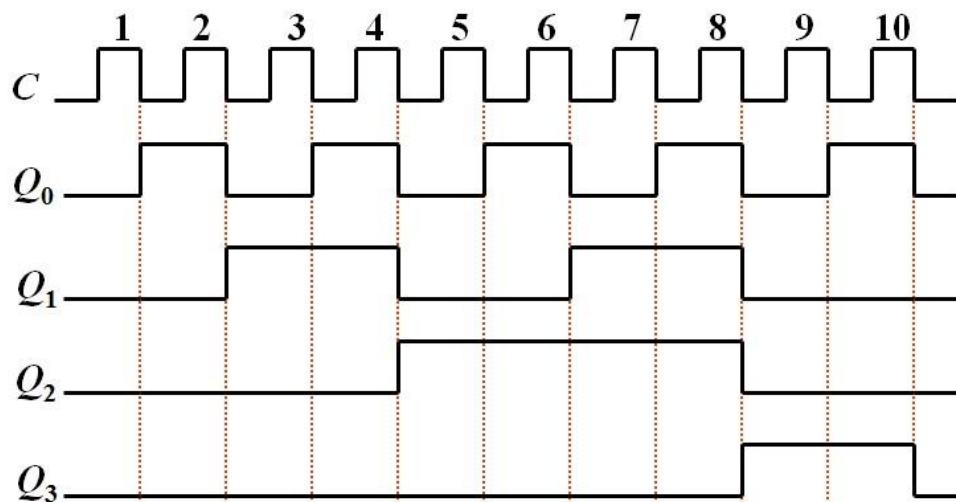
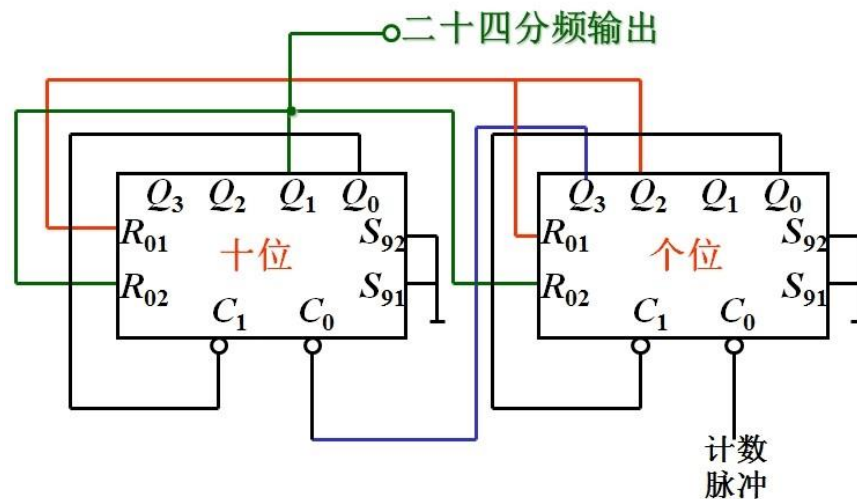
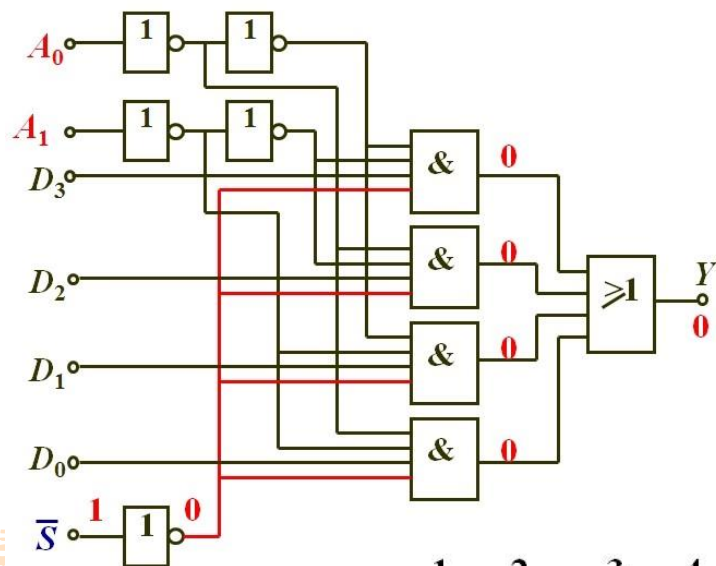
Analog circuit is an analog signal transmission and processing electronic circuit.

Digital circuit is a digital signal transmission and processing electronic circuit.

Instance



Instance



Application

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如意

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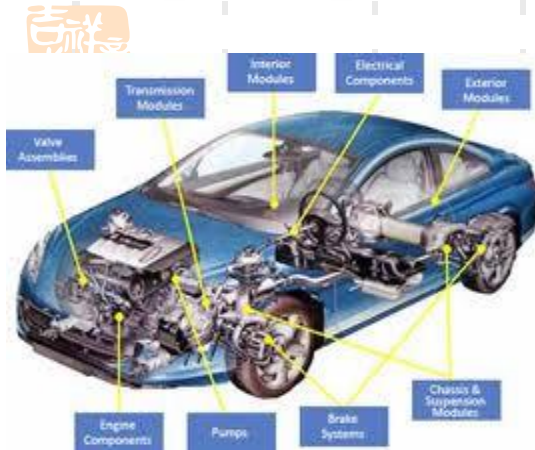
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Application

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Research Contents



■ Analog Circuit

- Semiconductor Devices/ Integrated Circuit;
- Weak Signal Amplification;
- Waveform Generation and Transformation;
- Different kinds of Amplifying Circuit;

■ Digital Circuit

- Boolean Operations and Expressions;
- Logic Gates;
- Design and Analyze Methods of Sequential Logic and Combinational Logic Circuit;

Main Contents



- 1、Semiconductor （6学时）
- 2、Basic Amplifying Circuit （8学时）
- 3、Application of Integrated Operational Amplifier （8学时）
- 4、Signal Generating Circuit （4学时）
- 5、DC Regulated Power Supply （4学时）
- 6、Boolean Algebra and Logic Simplification （4学时）
- 7、Combinational Logic Circuit （8学时）
- 8、Sequential Logic Circuit （6学时）

Assessment Methods



- 1、 Final Examination: 70%**
- 2、 Homework + Quizzes: 30%**



Teaching Material

Textbook

- ROBERT BOYLESTAD , LOUIS NASHELSKY 著/李立华改编 《 Electronic Devices and Circuit Theory》 9th International Edition
- Thomas L. Floyd 著/余璆改编 《Digital Fundamentals》 10th Edition

Reference book

- 童诗白 《模拟电子技术基础》 高等教育出版社
- 康华光 《电子技术基础》 高等教育出版社
- 秦曾煌 《电工学（第七版）（下册）：电子技术》 高等教育出版社