

信号与系统课程介绍

一、中文简介：

本课程是信息类专业本科生的一门重要的学科基础课程。它主要讲述确定性信号经由线性时不变系统处理或变换的基本概念、原理和方法，同时，平行地介绍时间连续系统与时间离散系统以及它们重要的应用，并分别从时域、频域、复频域三个方面阐述信号变换和系统分析的各种有效方法，从而建立完整的信号与系统的概念及分析理论。本课程为学生今后进一步学习数字信号处理、自动控制原理、控制工程、通讯原理等课程打下坚实的理论与方法基础。

二、英文简介：

This course includes the basic knowledge required for undergraduate students of Faculty of Information of Zhejiang University. It relates the basic concepts, principle, and methods for analyzing linear and time-invariant systems. Both the continuous-time and discrete-time systems are parallel discussed in the contents. Transforms among time domain, frequency domain, and complex frequency domain are elaborated. The contents of this course are essential for further study in the other courses like Digital Signal Processing, Principles of Automatic Control, Control Engineering, and Communication.