**数字信号处理英文词汇**

采样频率 sampling frequency

离散时间信号 discrete time signal

累加和系统 accumulator system

后向差分 backword difference

抽取 decimation

插值 interpolation

复指数序列 complex exponential sequence

叠加原理 superposition principle

线性移不变系统 shift invariant system

滑动平均系统 moving average system

单位冲激响应 impulse response

卷积 convolution

互相关 cross-correlation

自相关 auto-correlation

因果系统 causal system

稳定系统 stable system

差分方程 difference equations

时域 time domain

频域 frequency domain

混叠 aliasing

抗混叠滤波器 autialiasing filter

零阶保持器 zero-order hold

收敛域 region of convergence

有限长单位脉冲响应 finite unit impulse response

无限长单位脉冲响应 infinite unit impulse response

共轭对称 conjugate-symmetric

共轭反对称 conjugate-antisymmetric

幅频响应 magnitude frequency response

相频响应 phase frequency response

数字滤波器 digital filter

截止频率 cut-off frequency

共振器 resonator

峰值 peak value

波形发生器 waveform generator

数字陷波器notch filter **/** trap filter

全通滤波器 all-pass filter

最小相位滤波器 minimum-phase filter

群延迟 group-delay

傅里叶级数FS fornrier series

傅里叶变换FT fornrier transform

离散时间信号傅里叶变换DTFT discrete time fornrier transform

离散傅里叶级数DFS discrete fornrier series

离散傅里叶变换DFT discrete fornrier transform

周期延拓 periodic extention

圆周位移 circular shift

频谱分析 frequency analysis

频率采样定理 sampling theorem in the frequency domain

内插函数 interpolation function

重叠相加法 overlap-add method

重叠保留法 overlap-save method

快速傅里叶变换 fast forurier transform

旋转因子 twiddle factor

蝶形运算 buttterfly computation

码位倒叙 bit-reversed erder

直接型滤波器结构 direct formed structures for digital filter

级联型滤波器结构 cascude formed structures for digital filter

并联型滤波器结构 parrallel formed structures for digital filter

线性相位滤波器 structures for linear-phase FIR system