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Digital Signal Processing (DSP) is the processing of a digital signal, which is a sequence of discrete number, typically representing an analog signal in the case of a waveform. DSP refers to the techniques used to describe or manipulate such a discrete signal. UNIT IV. DIGITAL SIGNAL PROCESSING CHANNELS AND COMMUNICATIONS: Introduction of digital signal processing in communications Design of Nyquist, sampling, ideal s-channel, BPSK, QPSK, 4B1B, M-ary phase shift keying, binary phase shift keying, quadrature amplitude modulation, and pulse position modulation. Applications in pulse code modulation, and convolution modulation. Signal detectors. Implementation of quadrature amplitude modulation and pulse position modulation. Summary: Signal detection, BPSK, QPSK, PPM, Convolution modulation. UNIT II DECIMATIONPART 1: Introduction to Decimation1. Introduction to decimation. 2. Fourier series decomposition of decimated signal. 3. Digital sampling. 4. Reconstruction of decimated signals. UNIT II DECIMATIONPART 2: Signal resolution phenomena of decimation1. Signal resolution phenomena. 2. Oversampling. 3. Decimation. 4. Sub-Nyquist sampling. 5. Oversampling versus undersampling. 6. Oversampling versus decimation. 7. Oversampling versus undersampling. UNIT II DECIMATIONPART 3: Signal processing by decimation1. Introduction to Signal Processing. 2. Signals, sequences, alerts, sequences and signals, Signal modelling, Impedance mismatch, Signal modelling. 3. Decimation. 4. Signal filtering. 5. Synthesis of filters. 6. Synthesis of filters. 7. Adaptive filters. 8. Decimation versus filtering. 9. Decimation vs. generalisation.

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UNIT II DECIMATIONPART 4: Applications of decimation1. Digital sampling. 2. Decimation factor. 3. Decimation factors. 4. Decimation factor and decimation schemes. 5. Oversampling versus decimation. 6. Decimation versus arbitrary signals. 7. Decimation of periodic signals. 8. Multirate systems. 9. Circuit topologies for multirate signal processing. 10. Interpolation based sampling rate conversion. 11. Lowpass and band-pass filtering. 12. Beam forming. 13. Signal processing by decimation and intersample interpolation. 14. Hardware implementation of over sampling schemes. 15. Oversampling schemes for resolution improvement in case of multiple input multiple output systems. UNIT III INTERPOLATION: Introduction to interpolation techniques. 2. Interpolation of periodic signals. 3. Interpolation of signals with arbitrary parameters. 4. Interpolation for resolution improvement. 5. Interpolation based sampling rate conversion. 6. Introduction to lowpass and band-pass filtering. 7. Hardware implementation of interpolation schemes. 8. Introduction to Digital Filter Banks. 9. Introduction to sub-band coding. UNIT IV.FIR DIGITAL FILTER DESIGN: Logician approach, Generation of m bit N-Stage FIR Filter, Finite impulse response filter, Cascading, In-block FIR design by Decimation, Indirect Filter arrangements. Implementations, Programs, Implementation of FIR filters UNIT V.FIR DIGITAL FILTER DESIGN: Selection of passband and stopband, IIR analogue filters, IIR digital filters, Infinite Impulse Response filters, Reversibility of FIR digital filters, Phase Transitions, Properties of FIR and IIR digital filters. Implementation Examples. 5ec8ef588b

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