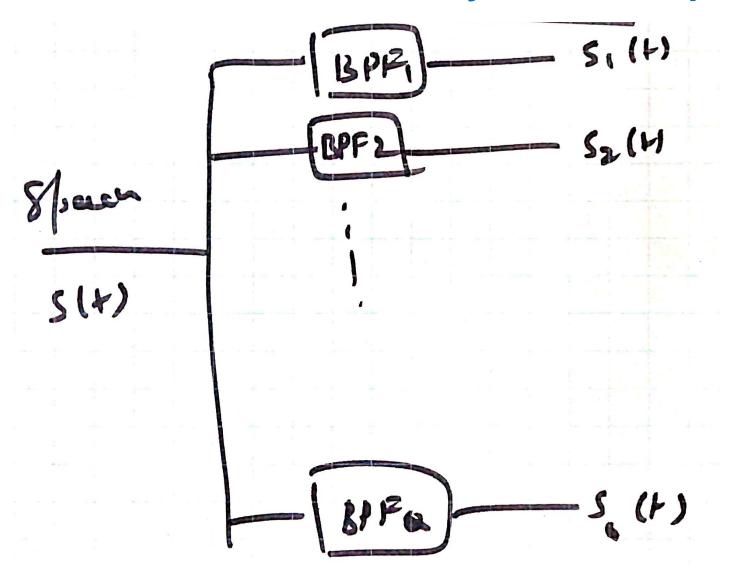
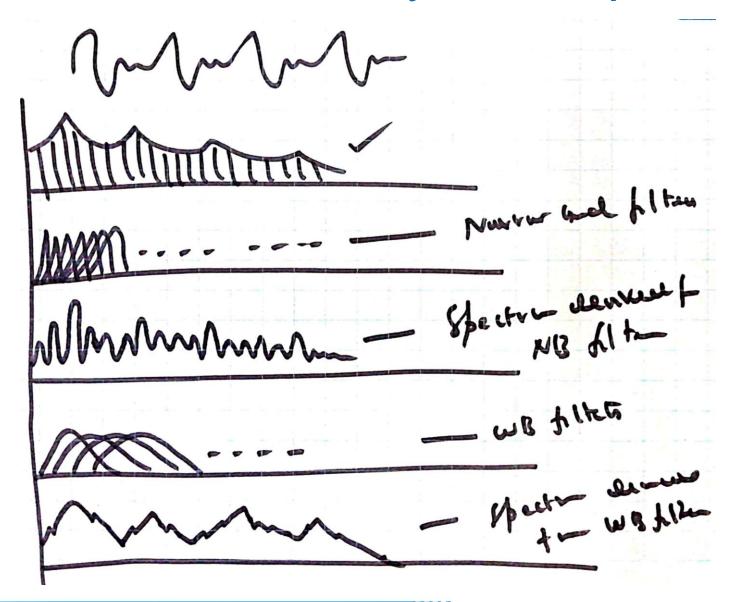
# Frequency Domain Analysis of Speech & Filter-Bank Analysis

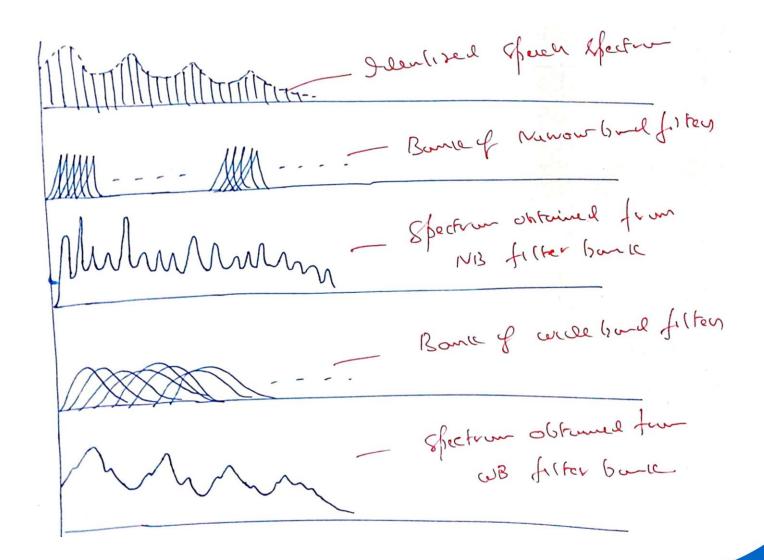
## Filter Bank Analysis of Speech



#### Filter Bank Analysis of Speech (Cont..)

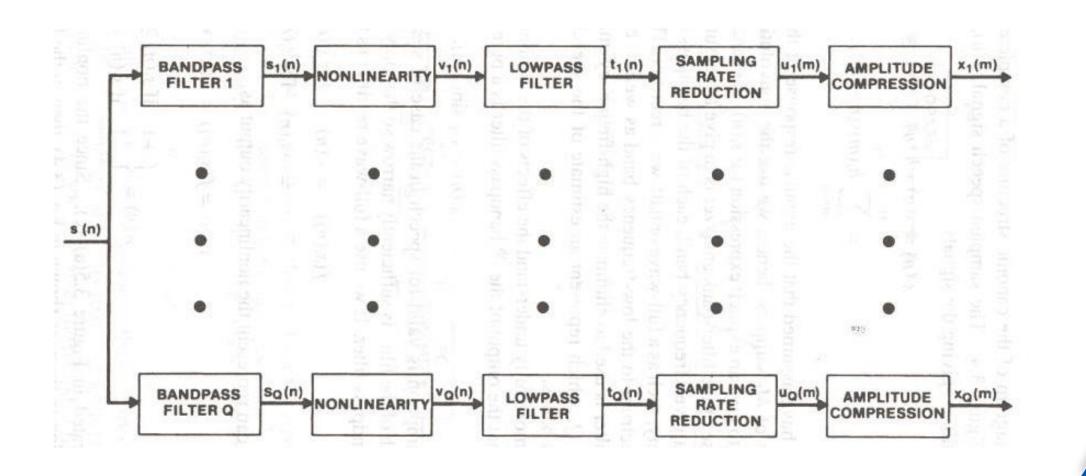


## Filter Bank Analysis of Speech (Cont..)

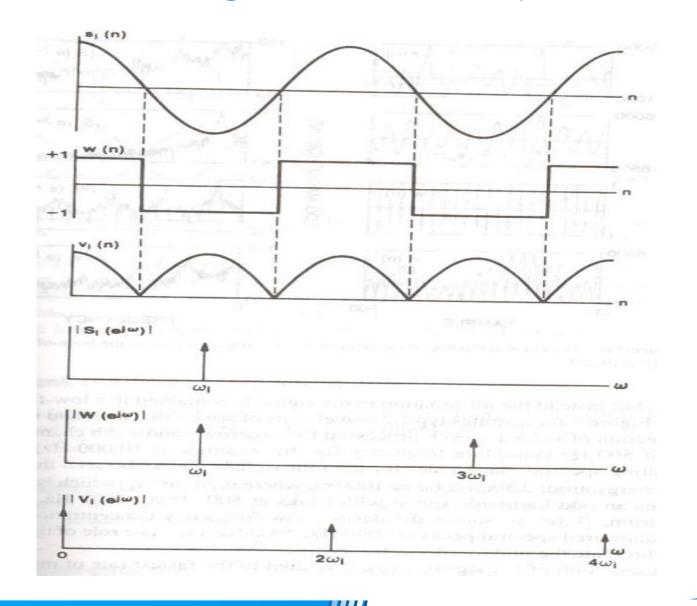


# Filter Bank Analysis for Speech Coding

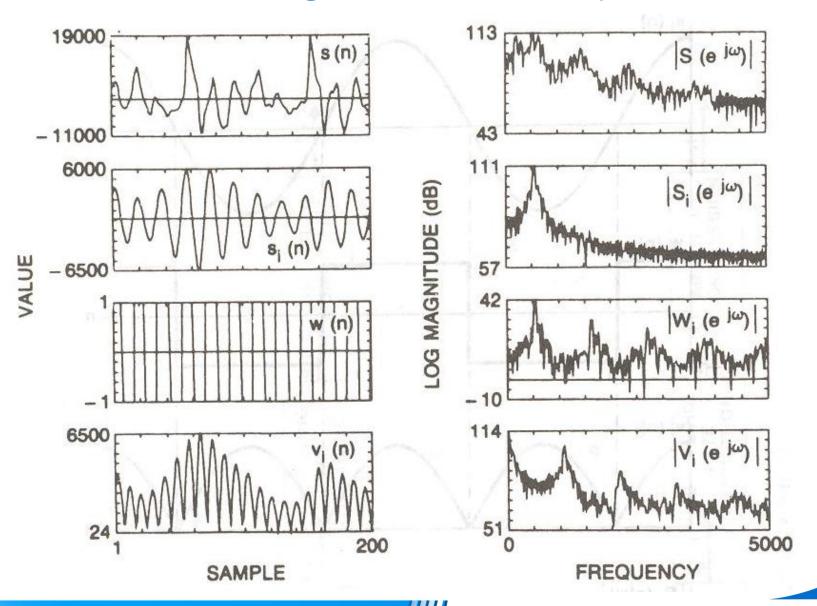
## Filter Bank Analysis Model for Speech Coding



### Translation of High Frequency to Low Frequency



#### Translation of High Frequency to Low Frequency

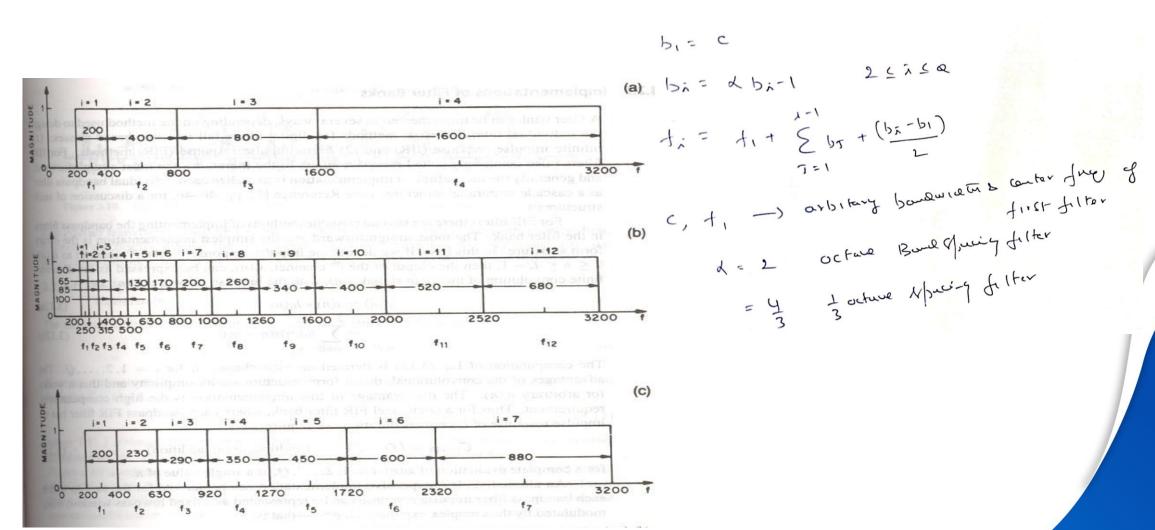


## Filter Bank Analysis for Speech Recognition

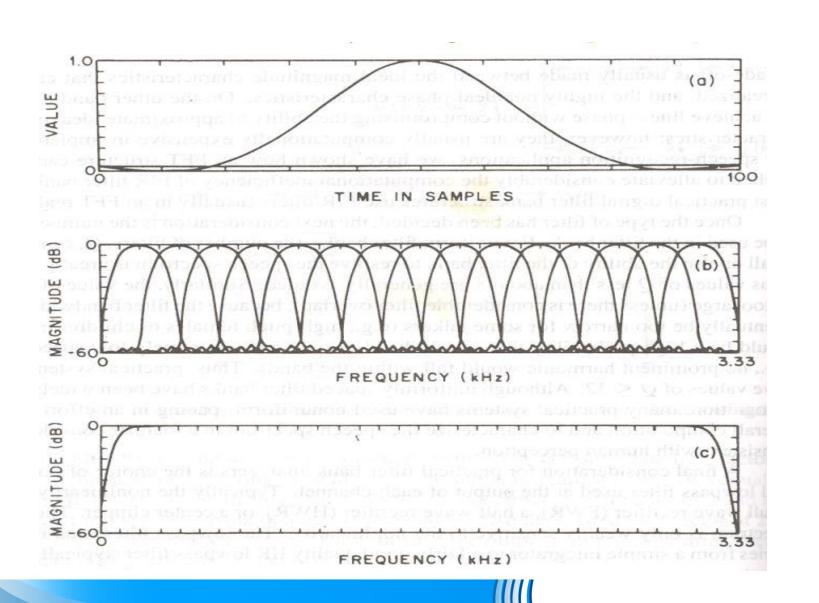
## Uniform Filter Bank

unifolm Filter Bonce

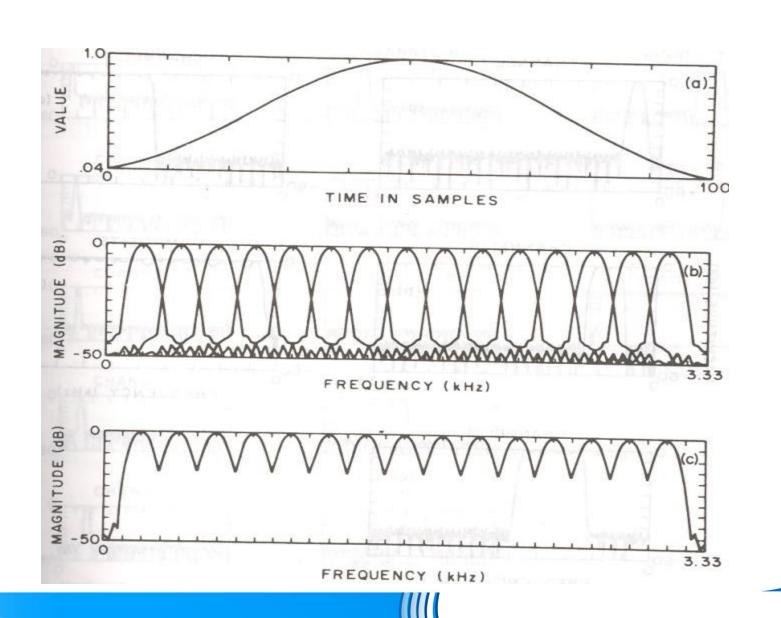
## Non-Uniform Filter Bank



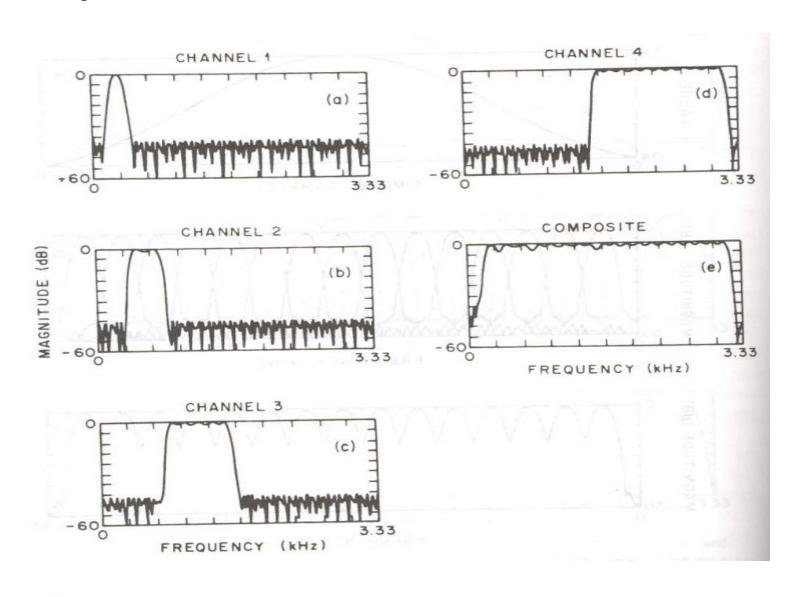
## Example: Uniform Filter Bank for SR



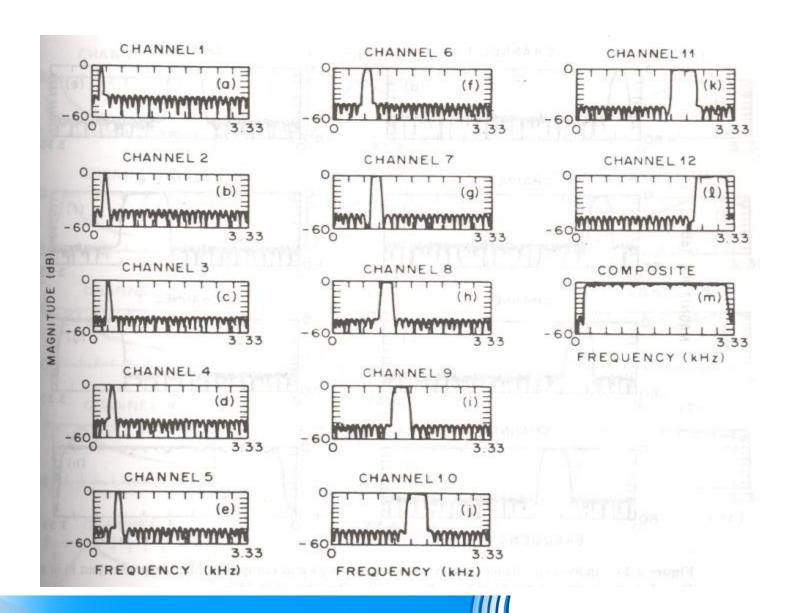
### Example: Uniform Filter Bank for SR



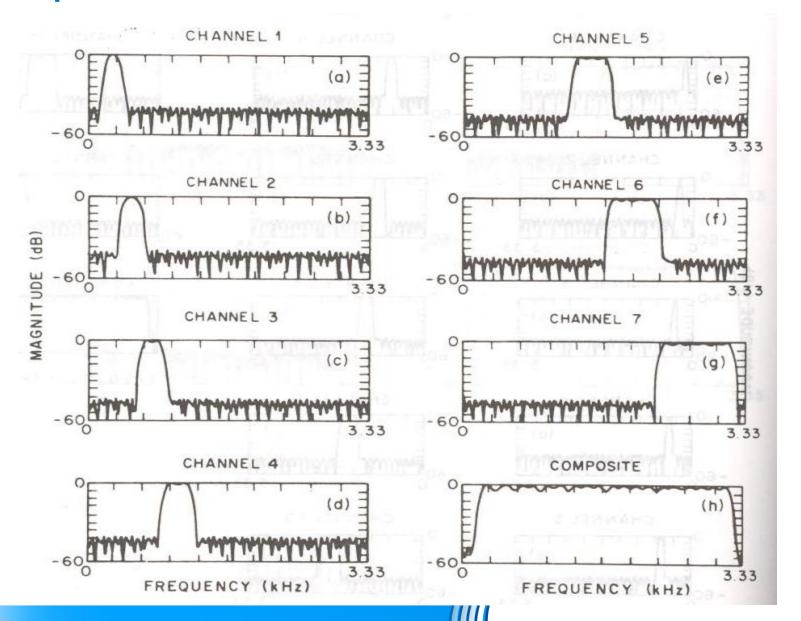
#### Example: Non-Uniform Octave Filter Bank for SR



#### Example: NU 12-Channel 1/3rd Octave Filter Bank for SR



#### Example: NU 7-Channel Critical Band Filter Bank for SR



#### Example: NU 13-Channel Critical Band Filter Bank for SR

