

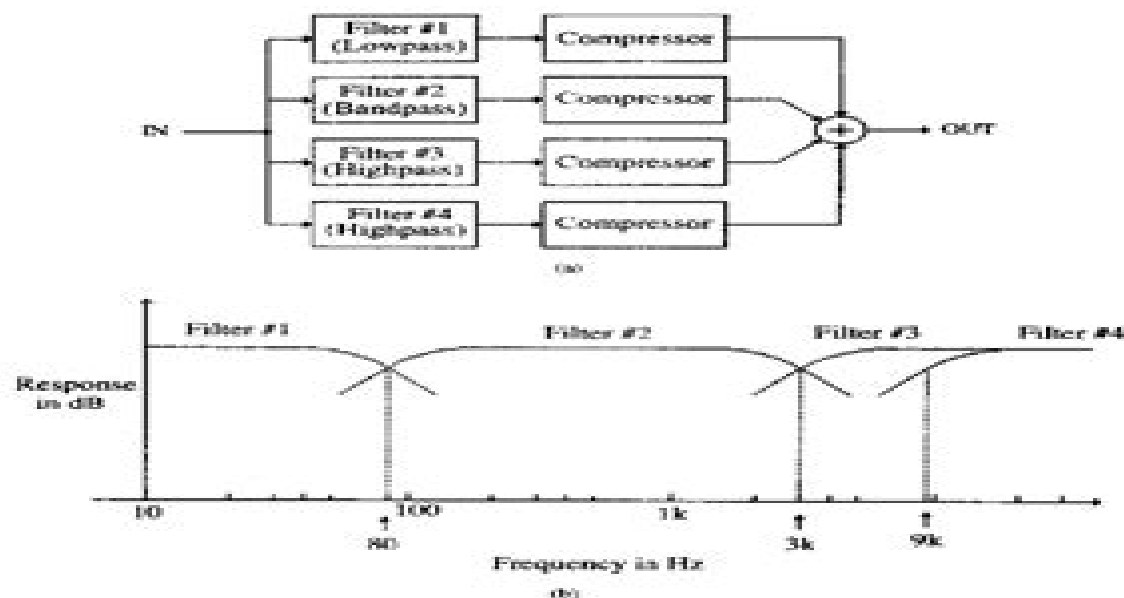


Figure 1.30: The Dolby A-type noise reduction scheme for the recording mode. (a) Block diagram, and (b) frequency responses of the four filters with cutoff frequencies as shown.

Noise reduction system. The overall dynamic range of human hearing is over 120 dB. However, most recording and transmission mediums have a much smaller dynamic range. The music to be recorded must be above the sound background or noise. If the background noise is around 30 dB, the dynamic range available for the music is only 90 dB, requiring dynamic range compression for noise reduction.

A noise reduction system consists of two parts. The first part provides the compression during the recording mode while the second part provides the complementary expansion during the playback mode. To this end, the most popular methods in musical recording are the Dolby noise reduction schemes, of which there are several types [Ear76], [Hub89], [Wor89].

In the Dolby A-type method used in professional recording, for the recording mode, the audio signal is split into four frequency bands by a bank of four filters; separate compression is provided in each band and the outputs of the compressors are combined, as indicated in Figure 1.30(a). Moreover, the compression in each band is restricted to a 20-dB input range from -40 to -20 dB. Below the lower threshold (-40 dB), very low level signals are boosted by 10 dB, and above the upper threshold (-20 dB), the system has unity gain, passing the high-level signals unaffected. The transfer characteristic for the record mode is thus as shown in Figure 1.31.

In the playback mode, the scheme is essentially the same as that in the recording mode, except here the compressors are replaced by expanders with complementary transfer characteristics, as indicated in Figure 1.31. Here, the expansion is limited to a 10-dB input range from -30 to -20 dB. Above the upper

Digital Signal Processing A Computer Based Approach

Wenbin Ji



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