

BANDWIDTH EXTENSION METHOD AND APPARATUS

ABSTRACT

Embodiments of the present invention provide a bandwidth extension method and apparatus. The bandwidth extension method includes: acquiring a bandwidth extension parameter, where the bandwidth extension parameter includes one or more of the following parameters: a linear predictive coefficient LPC, a line spectral frequency LSF parameter, a pitch period, a decoding rate, an adaptive codebook contribution, and an algebraic codebook contribution; and performing, according to the bandwidth extension parameter, bandwidth extension on a decoded low-frequency signal, to obtain a high-frequency signal. In the embodiments of the present invention, the bandwidth extension is performed, by using the bandwidth extension parameter and a correction factor obtained through calculation by using the bandwidth extension parameter, on the decoded low-frequency signal, thereby recovering the high-frequency signal. The high-frequency signal recovered by using the bandwidth extension method and apparatus in the embodiments of the present invention is close to an original high-frequency signal, and the quality is satisfactory.

Figure 1