

METHOD FOR PREDICTING HIGH FREQUENCY BAND SIGNAL, ENCODING DEVICE, AND DECODING DEVICE

ABSTRACT

Embodiments of the present invention provide a method for predicting a high
5 frequency band signal, an encoding device, and a decoding device. The method
includes: acquiring a signal type of an audio signal and a low frequency band signal
of the audio signal, where the audio signal includes the low frequency band signal and
a high frequency band signal; acquiring a frequency envelope of the high frequency
band signal according to the signal type; predicting an excitation signal of the high
10 frequency band signal according to the low frequency band signal; and restoring the
high frequency band signal according to the frequency envelope of the high frequency
band signal and the excitation signal of the high frequency band signal. By using the
technical solutions of the embodiments of the present invention, an error existing
between a high frequency band signal obtained by prediction and an actual high
15 frequency band signal can be effectively reduced, and an accuracy rate of the
predicted high frequency band signal can be increased.

Figure 3