

SIGNAL PROCESSING METHOD AND APPARATUS

ABSTRACT

This application discloses a signal processing method and an apparatus. The method includes:
A transmit device generates a PPDU, where the PPDU includes a preamble, the preamble includes
5 an LTF, the LTF includes a plurality of LTF symbols, and the plurality of LTF symbols may be
used to carry a sequence obtained according to a first matrix; and then sends the PPDU.
Correspondingly, a receive device receives the PPDU, and then processes, according to the first
matrix, signals received on the plurality of LTF symbols. The first matrix is a $P_{n \times n}$ matrix, or the
first matrix is obtained according to a $P_{n \times n}$ matrix, where $P_{n \times n} \times P_{n \times n}^T = n \times I$, I is an identity
10 matrix, the $P_{n \times n}$ matrix includes n rows and n columns, the $P_{n \times n}^T$ matrix is a transpose matrix of
the $P_{n \times n}$ matrix, and n is an integer greater than 8, and k indicates a k^{th} subcarrier in each of the
plurality of LTF symbols. According to the method provided in this application, channel estimation
of more than eight spatial streams can be implemented.

15 Fig. 4a