

LDPC CODE-BASED COMMUNICATION METHOD AND COMMUNICATION APPARATUS

ABSTRACT

This application provides a method for constructing an LDPC base matrix. The LDPC base
5 matrix may be obtained based on a storage matrix and indication information. Specifically, in a
process of obtaining the LDPC base matrix, low-code-rate extension includes two manners:
conventional extension and split extension. Whether each extension is conventional extension or
split extension may be determined by the indication information. Conventional extension can
increase an overall edge density of the LDPC base matrix, whereas split extension can reduce the
10 overall edge density of the LDPC base matrix. Therefore, the overall edge density of the LDPC
base matrix can be increased through conventional extension and reduced through split extension.
This helps maintain an optimal edge density of the LDPC base matrix during low-code-rate
extension, to improve performance of an LDPC code.

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FIG. 6