

WHAT IS CLAIMED IS:

1. A method for determining a hybrid automatic repeat request (HARQ) codebook, performed by a terminal, the method comprising:

feeding back, according to an HARQ codebook corresponding to a specified HARQ feedback resource, HARQ feedback information corresponding to a plurality of physical downlink shared channel, PDSCH, transmissions to a network device on the specified HARQ feedback resource;

in response to the HARQ enabling types for the plurality of PDSCH transmissions being HARQ disabled, determining dynamically that the HARQ codebook is empty;

in response to HARQ enabling types for a part of the plurality of PDSCH transmissions being HARQ enabled, determining (1101) that the HARQ codebook only comprises HARQ feedback information corresponding to the part of PDSCH transmissions; and

determining a size of the HARQ codebook dynamically based on a number of HARQ-enabled HARQ processes in HARQ processes to be fed back, and generating the HARQ codebook dynamically in a predefined order.

2. The method according to claim 1, further comprising:

in response to the HARQ enabling types for the plurality of PDSCH transmissions being HARQ disabled, determining, according to a result for the plurality of PDSCH transmissions, HARQ feedback information corresponding to the plurality of PDSCH transmissions in the HARQ codebook.

3. The method according to claim 1, further comprising:

in response to HARQ enabling types for a part of the plurality of PDSCH transmissions being HARQ enabled, determining that the HARQ codebook is empty and giving up a feedback of HARQ feedback information corresponding to the part of the plurality of PDSCH transmissions on the specified HARQ feedback resource.

4. The method according to claim 3, after determining that the HARQ codebook is empty, the method further comprises:

in response to receiving an HARQ feedback indication from a network device, determining to send HARQ feedback information corresponding to the part of PDSCH transmissions to the network device.

5. The method according to claim 1, wherein feeding back HARQ feedback information corresponding to the plurality of PDSCH transmissions to the network device on the specified HARQ feedback resource according to the HARQ codebook comprises:

in response to the HARQ codebook being empty, giving up a feedback of the HARQ feedback information to the network device on the specified HARQ feedback resource; or

in response to the HARQ codebook being non-empty, feeding back the HARQ feedback information in the HARQ codebook to the network device on the specified HARQ feedback resource.

6. The method according to any one of claims 1-5, wherein the HARQ codebook is a semi-static codebook.

7. A method for receiving HARQ feedback information, performed by a network device (2300), the method comprising:

receiving, from a terminal, HARQ feedback information corresponding to a plurality of physical downlink shared channel, PDSCH, transmissions fed back on a specified HARQ feedback resource according to an HARQ codebook corresponding to the specified HARQ feedback resource;

in response to the HARQ enabling types for the plurality of PDSCH transmissions being HARQ disabled, the HARQ codebook is dynamically determined as empty;

in response to HARQ enabling types for a part of the plurality of PDSCH transmissions being HARQ enabled, the HARQ codebook is determined as only including HARQ feedback information corresponding to the part of PDSCH transmissions; and

a size of the HARQ codebook is dynamically determined based on a number of HARQ-enabled HARQ processes in HARQ processes to be fed back, and the HARQ codebook is dynamically generated in a predefined order.

8. The method according to claim 7, further comprising:

in response to failing to receive the HARQ feedback information of a terminal device on the specified HARQ feedback resource, sending an HARQ feedback indication to the terminal device to indicate the terminal device to feed back HARQ feedback information corresponding to the part of PDSCH transmissions.

9. The method according to claim 7 or 8, wherein the HARQ codebook is a semi-static codebook.

10. A terminal device, comprising: a processor and a memory for storing a computer program, wherein when the computer program is executed by the processor, the device is caused to execute the method according to any one of claims 1 to 6.

11. A network device, comprising: a processor and a memory for storing a computer program, wherein when the computer program is executed by the processor, the device is

caused to execute the method according to any one of claims 7 to 9.

12. A non-transitory computer-readable storage medium storing instructions, wherein when the instructions are executed, the method according to any one of claims 1 to 6 is implemented.

13. A non-transitory computer-readable storage medium storing instructions, wherein when the instructions are executed, the method according to any one of claims 7 to 9 is implemented.

14. A communication method, performed by a communication system comprising a terminal and a network device, the method comprising:

feeding back, by the terminal and according to an HARQ codebook corresponding to a specified HARQ feedback resource, HARQ feedback information corresponding to a plurality of physical downlink shared channel, PDSCH, transmissions to the network device on the specified HARQ feedback resource; and

receiving, by the network device, the HARQ feedback information corresponding to the plurality of PDSCH transmissions;

wherein the method further comprises:

in response to the HARQ enabling types for the plurality of PDSCH transmissions being HARQ disabled, determining by the terminal dynamically that the HARQ codebook is empty;

in response to HARQ enabling types for a part of the plurality of PDSCH transmissions being HARQ enabled, determining by the terminal that the HARQ codebook only comprises HARQ feedback information corresponding to the part of PDSCH transmissions; and

determining by the terminal, a size of the HARQ codebook dynamically based on a number of HARQ-enabled HARQ processes in HARQ processes to be fed back, and generating by the terminal, the HARQ codebook dynamically in a predefined order.