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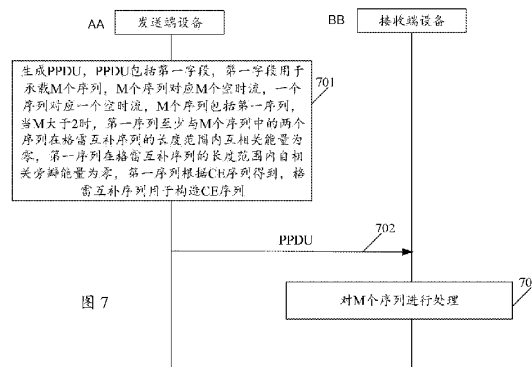
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(54) Title: SIGNAL PROCESSING METHOD AND APPARATUS

(54) 发明名称: 信号处理方法及装置



701 GENERATE A PPDU, WHEREIN THE PPDU COMPRISES A FIRST FIELD, THE FIRST FIELD IS USED FOR CARRYING M SEQUENCES, THE M SEQUENCES CORRESPOND TO M SPACE-TIME STREAMS, ONE SEQUENCE CORRESPONDS TO ONE SPACE-TIME STREAM, AND THE M SEQUENCES COMPRISE A FIRST SEQUENCE; AND WHEN M IS GREATER THAN 2, THE CROSS-CORRELATION ENERGY BETWEEN THE FIRST SEQUENCE AND AT LEAST TWO OF THE M SEQUENCES WITHIN THE LENGTH RANGE OF A GOLAY COMPLEMENTARY SEQUENCE IS ZERO, THE AUTO-CORRELATION SIDE LOBE ENERGY OF THE FIRST SEQUENCE WITHIN THE LENGTH RANGE OF THE GOLAY COMPLEMENTARY SEQUENCE IS ZERO, THE FIRST SEQUENCE IS OBTAINED ACCORDING TO A CE SEQUENCE, AND THE GOLAY COMPLEMENTARY SEQUENCE IS USED FOR CONSTRUCTING THE CE SEQUENCE

703 PROCESS THE M SEQUENCES

AA SENDING END DEVICE

BB RECEIVING END DEVICE

(57) Abstract: Disclosed are a signal processing method and apparatus. The method comprises: a sending end device generating a PPDU, and sending the PPDU; and a receiving end device receiving the PPDU, and processing M sequences carried in the PPDU. The PPDU shown in the present application comprises a first field, wherein the first field is used for carrying the M sequences, the M sequences correspond to M space-time streams, one sequence corresponds to one space-time stream, and M is a positive integer; moreover, when the M sequences comprise a first sequence and M is greater than 2, the cross-correlation energy between the first

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sequence and at least two of the M sequences within the length range of a Golay complementary sequence is zero, the auto-correlation side lobe energy of the first sequence within the length range of the Golay complementary sequence is zero, the first sequence is obtained according to a channel estimation (CE) sequence, and the Golay complementary sequence is used for constructing the CE sequence. By means of the method provided in the present application, the efficiency of sending a sequence can be effectively improved.

(57) 摘要: 本申请公开了一种信号处理方法及装置, 该方法包括: 发送端设备生成PPDU, 并发送该PPDU; 接收端设备接收该PPDU, 并对该PPDU中承载的M个序列进行处理。本申请所示的PPDU包括第一字段, 该第一字段用于承载M个序列, M个序列对应M个空时流, 一个序列对应一个空时流, M为正整数; 同时, M个序列中包括第一序列, M大于2时, 该第一序列至少与M个序列中的两个序列在格雷互补序列的长度范围内互相关能量为零, 第一序列在格雷互补序列的长度范围内自相关旁瓣能量为零, 第一序列根据信道估计CE序列得到, 格雷互补序列用于构造CE序列。本申请提供的方法可以有效提高发送序列的效率。