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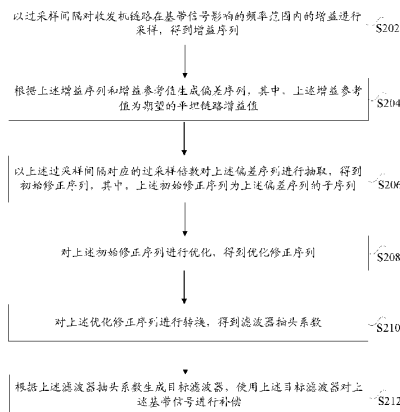
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(54) Title: FLATNESS COMPENSATION METHOD AND APPARATUS, AND STORAGE MEDIUM AND ELECTRONIC DEVICE

(54) 发明名称: 平坦度的补偿方法和装置、存储介质和电子设备



S202 Sample, at an oversampling interval, a gain of a transceiver link in a frequency range affected by a baseband signal, so as to obtain a gain sequence

S204 Generate an offset sequence according to the gain sequence and a gain reference value, wherein the gain reference value is an expected flat link gain value

S206 Perform extraction on the offset sequence with an oversampling multiple corresponding to the oversampling interval, so as to obtain an initial correction sequence, wherein the initial correction sequence is a subsequence of the offset sequence

S208 Optimize the initial correction sequence to obtain an optimized correction sequence

S210 Convert the optimized correction sequence to obtain a filter tap coefficient

S212 Generate a target filter according to the filter tap coefficient, and use the target filter to compensate for the baseband signal

图 2

(57) Abstract: Disclosed in the present invention are a flatness compensation method and apparatus, and a storage medium and an electronic device. The method comprises: sampling, at an oversampling interval, a gain of a transceiver link in a frequency range affected by a baseband signal, so as to obtain a gain sequence; generating an offset sequence according to the gain sequence and a gain reference value, wherein the gain reference value is an expected flat link gain value; performing extraction on the offset sequence with an oversampling multiple corresponding to the oversampling interval, so as to obtain an initial correction sequence; optimizing the initial correction sequence to obtain an optimized correction sequence; converting the optimized correction sequence to obtain a filter tap coefficient; and generating a target filter according to the filter tap coefficient, and using the target filter to compensate for the baseband signal. By means of the technical solution, the problem in the related art of the compensation effect of a filter generated by means of a conventional IFFT or training method pre-compensating for a baseband signal being poor is solved.

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本国际公布:

- 包括国际检索报告 (条约第21条(3))。

(57) 摘要: 本发明公开了平坦度的补偿方法和装置、存储介质和电子设备。该方法包括: 以过采样间隔对收发机链路在基带信号影响的频率范围内的增益进行采样, 得到增益序列; 根据增益序列和增益参考值生成偏差序列, 其中, 增益参考值为期望的平坦链路增益值; 以过采样间隔对应的过采样倍数对偏差序列进行抽取, 得到初始修正序列; 对初始修正序列进行优化, 得到优化修正序列; 对优化修正序列进行转换, 得到滤波器抽头系数; 根据滤波器抽头系数生成目标滤波器, 使用目标滤波器对基带信号进行补偿。采用上述技术方案, 解决了相关技术中, 通过常规的IFFT或训练的方法生成的滤波器对基带信号进行预补偿, 存在补偿效果差的问题。