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ABSTRACT OF THE DISCLOSURE

When a plurality of reference signal series are handled with the same input signal series during processing of an RLS algorithm based on QR decomposition, an object is to handle the plurality of reference signal series simultaneously. When performing processing of a sequential least-squares algorithm based on QR decomposition, to a configuration comprising a plurality of boundary cells (empty circles) which calculate appropriate rotation parameters for transformations based on Givens rotation, a plurality of internal cells (squares) which cause rotation of elements of a received data vector using the calculated values of the boundary cells (empty circles), and a final cell (double circles) which derives the a posteriori estimated error from the calculated values of the boundary cells (empty circles) and internal cells (squares), additional internal cells (squares) within 21 are connected so as to receive signals output from each of the internal cells (squares) arranged in the end cell column to which the signal series is input, and to the final cell (double circles) is connected an additional final cell (double circles) within 21, so as to receive the calculated values from the boundary cells (empty circles) and the calculated values from the additional internal cells (square) input to the additional final cell (double circles).