

METHOD AND APPARATUS FOR DETERMINING HIGH ORDER POLYNOMIALS FOR LINEARIZATION OF POSITION SIGNALS

ABSTRACT OF THE DISCLOSURE

A method and storage device are provided for initializing a polynomial linearizer in the storage device. The linearizer is initialized by identifying the coefficients of the linearizer polynomial. To reduce the computational intensity of this process, orthogonal-type coefficients for at least two orthogonal polynomials are identified, where the linearizer polynomial is formed as the sum of the orthogonal polynomials. The orthogonal-type coefficients are then combined to identify linearizer coefficients for the linearizer polynomial.

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