

ABSTRACT

In a digital recorded data reproduction which applies PRML signal processing, it is an object to enhance a reproduction signal quality and a playability for an abnormal signal by an offset correction and a phase-interpolation-type digital phase-locked loop.

A prescribed frequency band of a reproduction signal is emphasized by a waveform equalizing means 2, and its output signal is sampled by an asynchronous clock at an analog/digital converter 3. After a sampling signal is subjected to the offset correction, PR equalization is performed by a transversal filter 6 and a tap weighting factor control means 8 which applies LMS algorithm, and a signal of a regular sampling phase is reproduced from its output signal by a high-order interpolation filter 7 employing a digital phase-locked loop 11. The reproduced signal in a regular phase is demodulated by a maximum likelihood decoder 12, thereby to reproduce digital data recorded on a medium.



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