

ABSTRACT OF THE DISCLOSURE

CHARACTERISTIC EVALUATION METHOD FOR MAGNETIC DISK MEDIUM

In the measurement of the nonlinear distortion of a magnetic disk, a nonlinear transition shift and a partial erasure are separately measured, and the nonlinear distortion is quantitatively evaluated even at a high record density. A periodic pattern containing dibits and isolated bits, and a periodic pattern consisting only of isolated bits are written and read in synchronism with the rotations of the magnetic disk, and the reproduced waveforms of the respective periodic patterns are frequency-analyzed in a state where the phases of the periodic patterns are in agreement, thereby to obtain odd-numbered order harmonic components. The partial erasure and the nonlinear transition shift are evaluated in conformity with predetermined computational equations on the basis of the ratio between the odd-numbered order harmonic components.

Selected Drawing: Fig. 1