Co- γ Fe₂O₃/NiO HARD DISK (Yamaguchi University and Toda Kogyo Corporation)

1. Preparation

Co/Fe ratio dependence of Coercivity

Role of NiO underlayer (XRD)

2. Media properties

M-H hysteresis loops

Co- γ Fe₂O₃/NiO (90 nm/110 nm)
Average diameter: 33 nm
 R_s : 0.9 nm
 R_{max} : 9.7 nm

AFM image of Co- γ Fe₂O₃/NiO HARD DISK

3. Recording characteristics

Media specification

Recording media	Hc [Oe]	Br $\cdot\delta$ [G $\cdot\mu$ m]
Co- γ Fe ₂ O ₃ HD	2500($\pm$)	220 ($\delta=900\text{\AA}$)
For inductive head used HD	1756(//)	289
For MR head used HD	1775(//)	119
Particulate FD (Zip)	1565(//)	540

(a) DC erased

(b) 54.7kFPI signal was recorded

Noise characteristics

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