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ABSTRACT

MAGNETIC RECORDING MEDIUM, METHOD OF MANUFACTURE THEREFOR, AND MAGNETIC READ/WRITE APPARATUS

A magnetic recording medium that is capable of recording and reading back information at a higher density by improving the read/write characteristics and thermal stability, a method of manufacture therefor, and a magnetic read/write apparatus are provided. This magnetic recording medium comprises an orientation control film that controls the orientation of a film provided directly thereabove, a perpendicular magnetic film, of which the axis of easy magnetization is generally oriented perpendicular to a non-magnetic substrate, and a protective film, that are provided on the non-magnetic substrate, wherein the perpendicular magnetic film is made of a material which contains Co, Cr, Pt and Cu, the Cr content being 16 at% to 24 at% and the Cu content being 0.1 at% to 4 at%, and a coercive force (H_c) of the perpendicular magnetic film being at least 3000(Oe), negative nucleation field ($-H_n$) being 0(Oe) to 2500(Oe), and a ratio of residual magnetization (M_r) to saturation magnetization (M_s) being at least 0.85.

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