This Sheet Has Been Replaced



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SERVO METHOD AND DEVICE FOR HARD DISK DRIVE

Abstract

A synthesis means 62 synthesizes a target PES value input from a controller 61 and a value from a PES value calculation means 56 which corresponds to the displacement of a magnetic head 58A. A coefficient application means 42 applies a predetermined coefficient K_1 to the above deviation (multiplication), and a variable coefficient application means 47 applies a coefficient K_a to the resulting value. The coefficient K_a is varied and set in the variable coefficient application means 47 in accordance with a value input from a table 48. The correspondence between the target PES value and the coefficient K_a used as a feedback coefficient for the PES value is stored in the table 48 in advance so that the coefficient K_a is small when the PES value varies sharply and so that the coefficient K_a is large when the PES value is small. The variable coefficient application means 47 outputs, to a driver 46, a value to which the coefficient K_a has been applied in accordance with the value from the table 48.

Figure 1