SEEK OPTIMIZATION FOR DISK FILES WITH SIDE-BY-SIDE HEAD

ABSTRACT

Method and apparatus for a data recording disk file having a head module with separate read and write transducers for optimizing the switching of the head between reading and writing on the same track or cylinder. A function generator defines a control function for a servo control signal to drive an actuator to move the head module the approximate distance between the side by side write (54) and read (52) transducers, otpimized to minimize the time between write and read, and optimized to move the head module the approximate distance between the read (52) and write (54) transducers to minimize the write transition time. The method and apparatus additionally comprises defining a family of control functions optimized to account for the latency time between write and read for selected angular distances (skew) between the ending of the data being written and the start of the data to be read, and vice versa.

Fig. 10