

ABSTRACT

**ACTIVE CONTROL SYSTEM AND METHOD FOR REDUCING DISK
FLUTTERING INDUCED TRACK MISREGISTRATIONS**

The present invention relates to controlling an actuator for positioning a read/write head in storage devices such as disk drives. More specifically, the invention relates to using a sensor to detect the disk vibration amplitude perpendicular to the disk surface, and using feed forward control to cancel or counteract the tendency of the read/write head to deviate off-track due to disk vibration. Various approaches are proposed to detect the disk vertical vibration.

(Figure 4)