



Mechanics and Reliability of Flexible Magnetic Media

Bharat Bhushan

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According to some estimates, 95% of information today is stored on paper, 3% on microfiche, and only 2% on magnetic/optical and semiconductor storage devices. Semiconductor storage is almost exclusively used for dynamic random access memory (D-RAM) in computers, and constitutes a very small fraction of the total storage capacity. Magnetic storage devices include hard disk, flexible disk, and tape drives. Estimates for worldwide storage is 12,000 petabytes (12 million terabytes). It is estimated that magnetic tapes store about 95% of the information, and the balance is stored equally by magnetic hard disk and optical disk drives (250 petabytes each). For comparisons, the human brain has 10 neurons and holds approximately 200 megabytes of information. For a world population of 6 billion people, the total human memory is therefore 1200 petabytes, which is about 10% of the electronically recorded information. Magnetic and optical storage industry for consumer and data recording applications is at present an industry grossing more than \$80 billion per year. It is expected to grow at cumulative rate of about 10% per year. Revenue is as follows: for magnetic disks and drives, about \$35 billion; for flexible disks and drives, about \$4 billion (\$1.5b/\$2.5b); for data tape and tape drives, about \$8 billion (\$2b/\$6b); for consumer video- and audiotape and tape drives, about \$25 billion (\$8b/\$17b); for CD/DVD read-only disk and disk drives, about \$7 billion (\$1b/\$6b); and for other optical products, less than a \$1 billion.

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