

ANALYSIS

A common way of analyzing the motion of objects is to perform a ticker tape analysis. A long tape is attached to a moving object and threaded through a device that places a tick upon the tape at regular intervals of time - say every 0.2 second. As the object moves, it drags the tape through the "ticker," thus leaving a trail of dots. The trail of dots provides a history of the object's motion and therefore a representation of the object's motion.

The distance between dots on a ticker tape represents the object's position change during that time interval. A large distance between dots indicates that the object was moving fast during that time interval. A small distance between dots means the object was moving slow during that time interval.

The analysis of a ticker tape diagram will also reveal if the object is moving with a constant velocity or accelerating. A changing distance between dots indicates a changing velocity and thus an acceleration. A constant distance between dots represents a constant velocity and therefore no acceleration. And so ticker tape diagrams provide one more means of representing various features of the motion of objects.

ERROR ANALYSIS

1. **Equipment Error:** During the experiment there were difficulties that sometimes occurred with the ticker tape timer. Though the machine worked quite effectively the problem was encountered with the black carbon disc that created imprints on the ticker tape paper. During the experiment on two occasions the disc would either not imprint anything on to the ticker tape paper or come off during that experiment. This resulted in trails having to be repeated and the waste of lab materials to retrieve accurate data.
2. **Inherent Error:** There's always potential for inherent errors during an experiment and this one is not an exception. The cart being released and the operation of the ticker tape timer were done by two different group members. This created the possibility for the cart to be released slightly before or after the ticker tape timer was activated. Though it may not seem drastic because the time measurements being recorded are so miniscule such a synchronization problem can significantly change in average velocities per interval.

Engineering Science Lab Report Linear Motion

Lingsheng Yao



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