

## X

**xerographic printer:** A device for printing an optical image on paper in which dark and light areas of the original are represented by electro-statically charged and uncharged areas on the paper. The paper is dusted with particles of finely powdered dry ink and the particles adhere only to the electrically charged areas. The paper with ink particles is then heated, causing the ink to melt and become permanently fixed to the paper.

**xmas-tree sorting:** A method utilized in the internal portion of a sort program. The results of the comparisons between groups of records are stored for later use.

**X-Y coordinates CRT display:** A typical CRT display is a 16-inch random-position, point-plotting cathode-ray tube which permits rapid conversion of digital computer data into graphic and tabular form. A self-contained unit with built-in control and power supplies, the CRT requires only logic

level inputs for operation and thus may be easily connected to any digital system. Location of any desired point may be specified by any of the 1024 X and 1024 Y coordinate addresses contained in a  $9\frac{3}{8}$  inch square on the tube face. X and Y coordinate information in two ten-bit words is received from the computer, and, on command, displayed as a spot of light on the tube face. Discrete points may be plotted in any sequence at a 20-kilocycle rate (one point every 50 microseconds). Magnetic deflection and focusing techniques result in uniform resolution.

**XY plotter:** Device used with a computer to plot graphs.

**XY recorder:** A device which is designed to trace the relation between a pair of variables onto a set of plane rectangular coordinates.