A VACUUM-TUBE CHARACTERISTIC CURVES PLOTTER

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ABSTRACT

This thesis describes a new plotting device for single-channel or multi-channel recorder. The plotting device operates by a high speed scanning (in the y-direction) stylus which transmits a marking pulse, to mark a metal coated paper at the point corresponding to the amplitude of the input voltage. An electronic selector switch is employed as an automatic input selector for multi-channel recording.

This recorder is aimed primarily for plotting a series of plate characteristics of vacuum triodes. The plate characteristics of vacuum-tubes as recorded by the apparatus are nearly identical with the manually plotted curve. The main sorce of errors is originated from the grid voltage supply unit which is a sub-unit connected to the main plotting device. The main plotting device itself is preferably accurate.

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