ABSTRACT

A LOW COST DIGITAL AMPLITUDE REGULATOR

Apparatus for digital amplitude regulation is disclosed, for use as a volume control or the like, utilizing pulse width modulation to control signal transmission through a two terminal non-linear element, the resistance of which varies with current, e.g., a diode (74) or diode like element. A stream of pulses (54), the duty cycle of which is variable and digitally controlled, is filtered (56,58) to produce a quasi-continuously variable reference signal (50). The value of the reference signal regulates gain by controlling the component of the signal (65) of interest that is actually available for amplification. FIGURE 1

This is the replacement sheet

Date: 27 MAR 1999