



BENDY POTS

A whole pile of graphs showing what happens when you add resistors to a pot. Note that the values are shown in percentage of the pot value

5

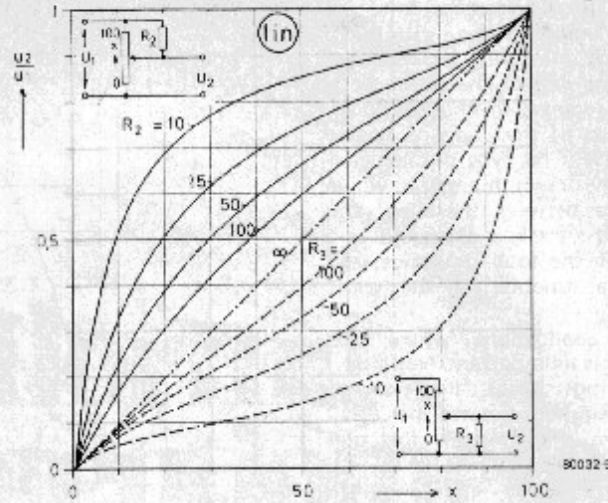


Figure 5. These characteristics can be obtained by adding one resistor to a linear potentiometer.

6

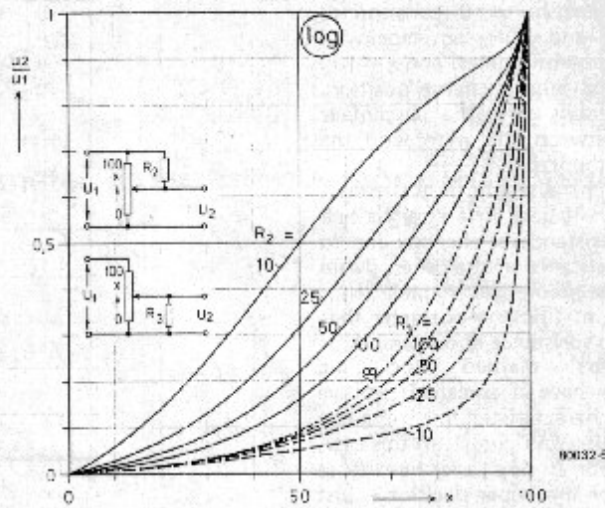


Figure 6. Provided one has access to a logarithmic potentiometer with a theoretically ideal characteristic, these modified characteristics can be obtained by adding one fixed resistor.

7

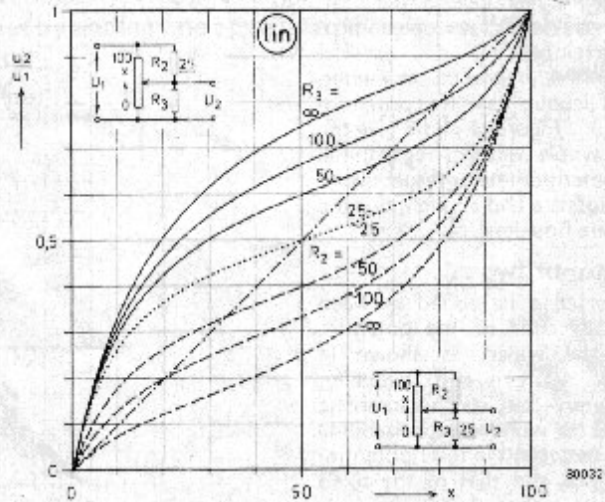


Figure 7. Using two resistors and a linear potentiometer. The full lines correspond to the situation where R_3 is fixed and equal to $\frac{1}{2}$ of the total potentiometer value; the dotted lines

tailoring potentiometers

8

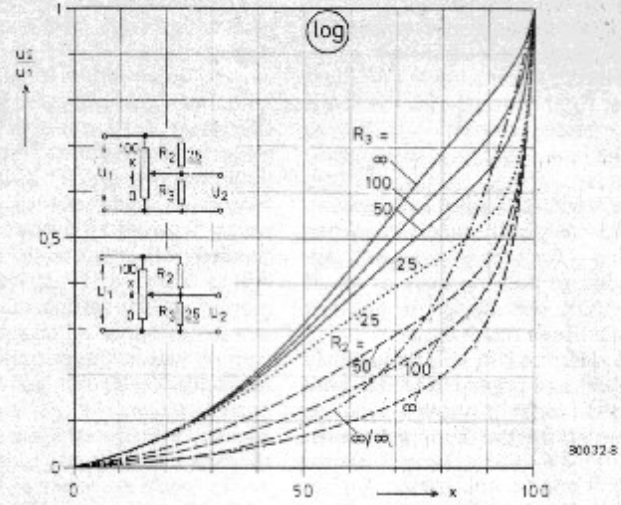


Figure 8. A logarithmic potentiometer and two resistors can produce this intriguing set of plots. As before, the full lines are valid when R_2 is fixed and R_3 is varied, and the dotted lines are obtained when R_3 is fixed at $\frac{1}{4}$ of the total potentiometer value. The basic logarithmic plot is also indicated, as a reference.

9

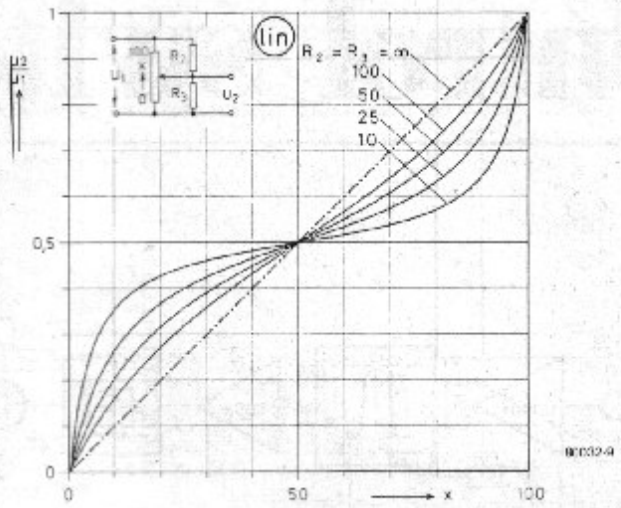


Figure 9. Using a linear potentiometer and two equal potentiometers, this set of plots can be obtained.

10

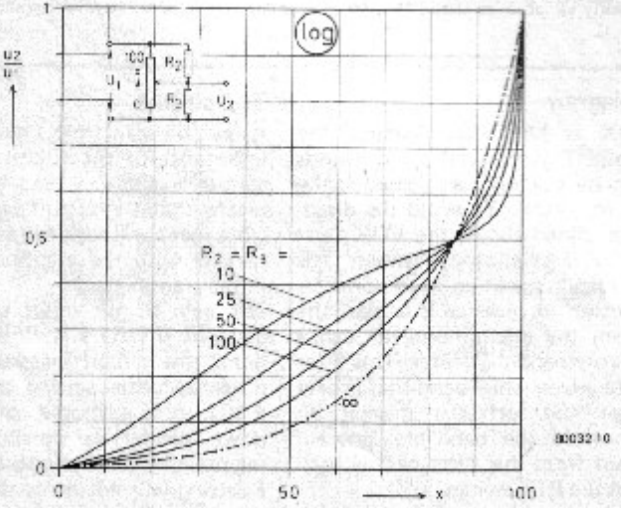


Figure 10. Using a logarithmic potentiometer and two resistors, this set of plots can be obtained.

