

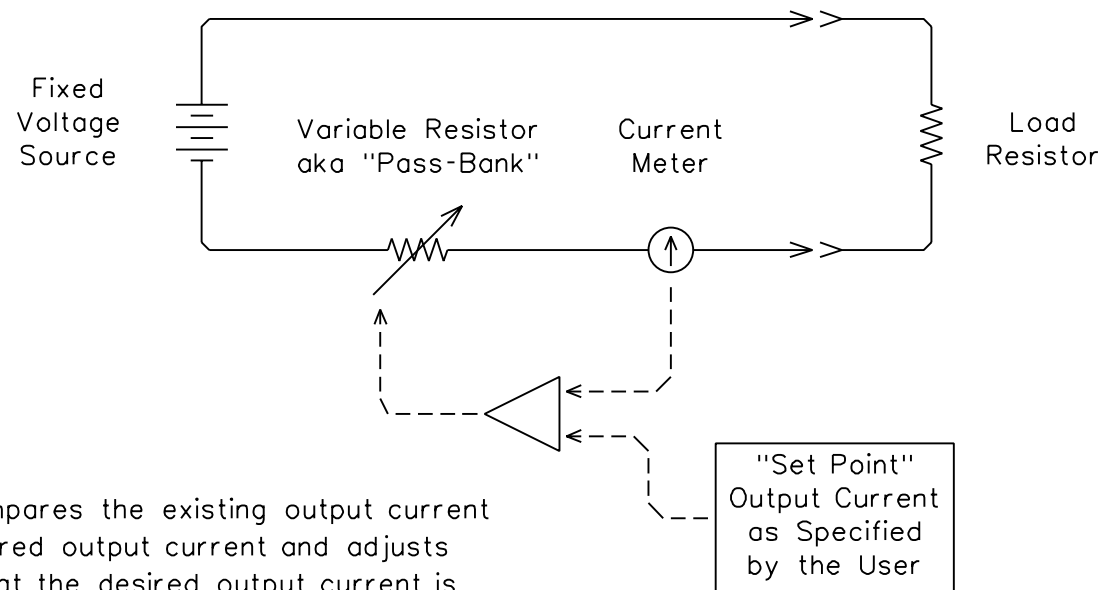
Voltage & Current Sources Continued

Thevenin and Norton theorems actually are very useful when analyzing a complex source in an electrical circuit.

Thevenin's theorem is used to simplify a complex source into an ideal voltage or current source with just one series or shunt resistance.

Norton's theorem lets you switch back and forth between modeling a real circuit as a voltage or as a current source.

Real Power Supplies almost always involve a Servo Loop e.g. a voltage source plus a servo loop can be used to make a constant current power supply.



The Servo Loop compares the existing output current to the specified desired output current and adjusts the pass-bank so that the desired output current is produced and held constant during changes in the value of the voltage source and/or of the load resistor.