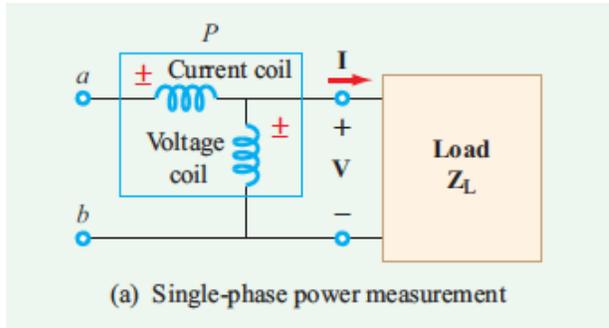


**Concept Question 10-12:** A wattmeter uses a current coil and a voltage coil. How should the two coils be connected relative to the source and load of a single-phase circuit?



► If the  $\pm$  terminal of the current coil is on the end toward the source and the  $\pm$  terminal of the voltage coil is connected to the line in which the current coil is inserted, the calibrated deflection on the wattmeter (or digital display) is equal to the average power  $P$  absorbed by the load. ◀