## Thevenin's Theorem

This may be summed up by the following equation. (By Ohm's law)

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This infers that the required or desired "open circuit" (E $_{\rm o}$ ) voltage can be obtained with the instrument reading (E $_{\rm i}$ ) if one knows the output and input impedances. (R $_{\rm o}$  and R $_{\rm i}$ ) This is because the current flows in an apparent (i) simple, single loop.

To calculate R  $_{\circ}$  add all impedances on the left, i.e., in the actual network, shown below, while "shorting out" all voltage sources contained therein.



(29)TT43x

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