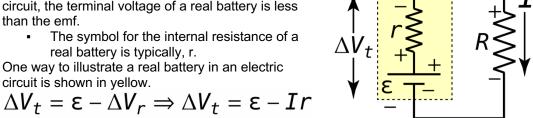


Flipping Physics Lecture Notes: Terminal Voltage

http://www.flippingphysics.com/terminal-voltage.html

- Terminal Voltage, ΔV_t , is the measured voltage across the terminals of the battery.
 - Because all real batteries have some internal resistance, when a battery is supplying current to a circuit, the terminal voltage of a real battery is less than the emf.
 - The symbol for the internal resistance of a real battery is typically, r.
 - One way to illustrate a real battery in an electric circuit is shown in yellow.



- As current increases, the terminal voltage decreases.
- The only way to get the terminal voltage to be equal to the emf is to have no current flowing through the battery.