

Problem HH 4.4

Use an op-amp and a 1mA (full scale) meter to construct a “perfect” ammeter (i.e. one with zero input impedance) with 5mA full scale. Design the circuit so that the meter will never be driven more than $\pm 150\%$ full scale. Assume that the op-amp output can swing to ± 13 volts (± 15 V supplies) and that the meter has 500 ohms internal resistance.