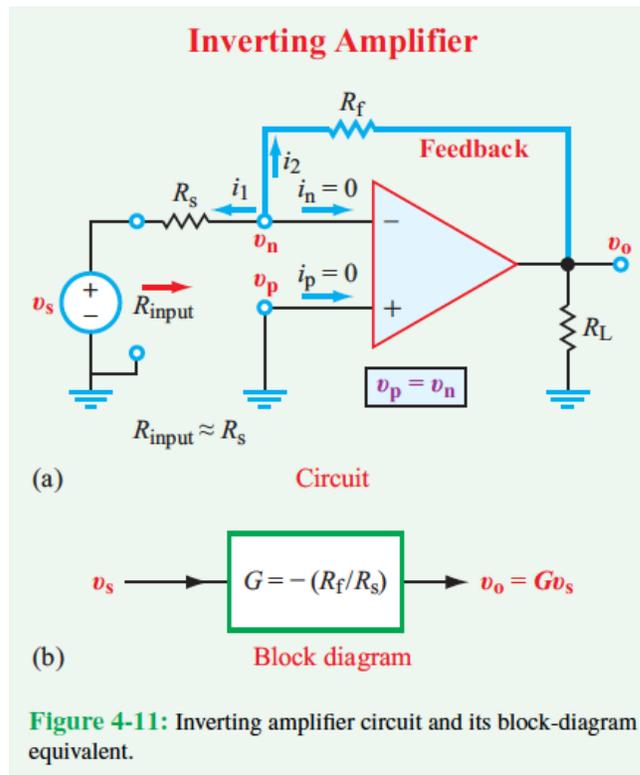


**Concept Question 4-10:** How does feedback control the gain of the inverting-amplifier circuit?



**Figure 4-11:** Inverting amplifier circuit and its block-diagram equivalent.

The magnitude of the gain is directly proportional to the feedback resistance  $R_f$ . Maximum feedback means  $R_f = 0$ , in which case  $G$  goes to zero, and minimum feedback means  $R_f$  is an open circuit, in which case the gain becomes infinite (but the output cannot exceed  $V_{cc}$ ).