

Special Problem 3.3-9

The voltage source at the **left** of the circuit below produces a **small a.c. signal** $v_s(t)$.

The junction diode D_1 has an ideality factor of $n = 1.0$

The junction diode D_2 has an ideality factor of $n = 2.0$

The **capacitor** in the circuit is **extremely large** (i.e., a DC open, but an AC "short"!)

Determine the small-signal voltage across each diode, in terms of small-signal voltage source $v_s(t)$.

