Special Problem 3.3 -14

The voltage across a junction diode is known to be:

$$v_D(t) = 0.650 + 0.001\cos\omega t \qquad V$$

This junction diode has scale current of $I_s = 10^{-13}$ A, and an idealty factor of $n = 1.00$.

> Determine (approximately) the **small-signal current** flowing through this junction diode. **Hint:** The small-signal current will be a function of **time** t.