Probes from 5T-Tune

Similar to square crystal oscillators diagrams

Closed loop self-sustaining oscillator

\[ V_{in} \approx 5 \text{ V} \text{ at } 1 \text{ Hz} \]

In phase \( V_{in} \text{ (right)} \)

\[ V_{out} = 6 \text{ V} \text{ sin}(2\pi t) \]

Result: \[ V_{in} = -6 \text{ V} \text{ sin}(2\pi t) \]

Wire diagram HW#6

LM308 and go + \( 4.8 \text{ V} \)

I 10S, 2 sides, no 486

Midterm Monday, Oct 10, in class
Problem: Temperature analysis at well.

Can resolve 60°C at L = 10.5 h

L/J = 4.5 kJ/square
6% loss in R or 6 square

A 10% decrease will yield a

polyphase current -20 to +30
Here is a step function of strain.
For silicon, there is another factor.
Grain factor close to 2 for most films.

\( \frac{R}{\Delta} = \frac{1}{1 + 2v} \) \( \epsilon = c - e \)

\( R(e) = R(1 + 2v) \epsilon \)

\( \frac{R}{\Delta} = \frac{R_0}{1 + \frac{1}{2v}} \epsilon \)

\( R(e) = \frac{R_0 (1 + 2v) \epsilon}{1 + \frac{1}{2v}} \)

\( \frac{1}{1 + \frac{1}{2v}} \epsilon = \frac{1}{1 + \frac{1}{2v}} \epsilon \)

\( R(e) = \frac{R_0}{1 + \frac{1}{2v}} \epsilon \)

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