

Electrical Engineering Indian Institute of Technology Hyd Analog Electronics

March 9, 2024

Deadline: 16 March 2024 Assignment # 4 Maximum Marks: TBD

Instructions:

1. Use LT spice software.

1. Design the following in LT Spice:

- a. A RC phase shift oscillator (3 stage) for 50 kHz sin wave signal output.
- b. A Wien bridge oscillator for 50 kHz sin wave signal output.
- c. A Square wave generator for a fundamental frequency of 10 kHz signal output. Use an integrator and convert the square wave signal into tringular wave.
- d. A Square wave generator for a fundamental frequency of 10 kHz signal output. Use an integrator and convert the square wave signal a sawtooth wave with rise time = 1/2 fall time.
- e. Design a schimitt trigger circuit and show the hesteresis curve with Vth (+ and -ve) = +- 200mV

Student's roll number:

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