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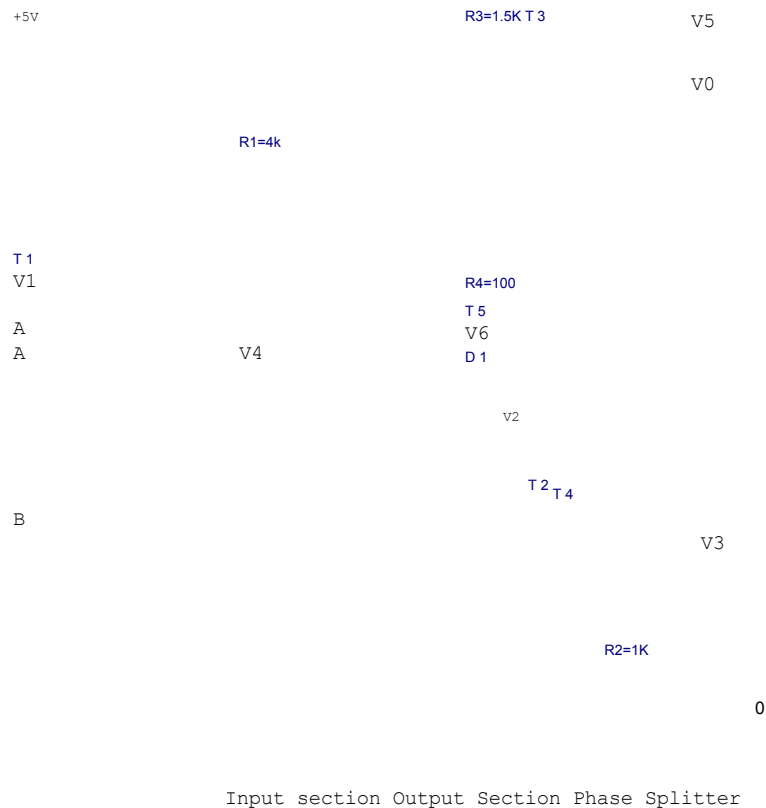


Figure 1: TTL NAND gate with Totem Pole output

Report

1. What is totem pole stage?
2. Why totem pole is used in place of passive pull up resistor?
3. What is the function of T3?
4. What may happen if diode D1 is not used in the circuit?
5. Can two totem pole gates be wire ANDed? Justify your answer.
6. What is the function of the phase splitter?

7. Design a TTL NOR gate with Totem Pole Output Stage.

Reference

Reference: Microelectronics: Digital and Analog Circuits and Systems by Jacob Millman