

MICROWAVE ENGINEERING LAB

VIVA QUESTIONS AND ANSWERS

1. Why can't conventional tubes be used at microwave frequencies?
Conventional tubes can't be used at microwave frequencies, because of transit time effect. Load impedance and inter electrode capacitance of the diodes will finally limit the output which may even be zero.
2. What is transit time?
It is the time taken by the electrons to travel from cathode to anode.
3. What is the operating principle of reflex klystron?
It works on the principle of velocity modulation and current modulation.
4. What is velocity and current modulation in reflex klystron?
Variation in velocities of the electrons in the electron beam is called velocity modulation, variation in the current density of the electron beam is referred to as current modulation.
5. How does bunching occur in reflex klystron?
A reference electron leaving the gap when the gap voltage is zero travels with no change in velocity. An electron leaving the gap earlier during slightly positive voltage is pulled back further into region of space and hence reaches gap longer time than the reference electron to return to the gap. An electron leaving the gap later will take slightly negative voltage and gets retarded. So it returns back after a shorter time in the region of space. Thus all the electrons start return back to the gap in bunches. Bunching around reference electron takes place once per cycle of RF modulation.
6. Why do different modes of operation exist for a reflex klystron?
There are several combinations of gapler voltage and anode voltage that provide favorable conditions for bunching. Accordingly there are several modes of operation, denoted by $2N + 1/2$, where N is an integer.

Microwave Engineering Lab Viva Questions Answers

Michael Hoelscher



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