

# Tuned Radio receiver

## Lecture-29

TDC PART -1

PAPER 1(GROUP B)

Chapter -6

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# RADIO RECEIVER

- A broadcast receiver is commonly called a "radio". However radio receivers are very widely used in other areas of modern technology, in televisions, cell phones, wireless modems and other components of communications, remote control, and wireless networking systems.



# TUNED RATIO RECEIVER

- The definition of the tuned radio frequency, TRF receiver is a receiver where the tuning, i.e. selectivity is provided by the radio frequency stages



# TRF SECTIONS

- There is mainly 3 section
- Tuned radio frequency stages: This consisted of one or more amplifying and tuning stages. Early sets often had several stages, each providing some gain and selectivity.



- **Signal detector:** The detector enabled the audio from the amplitude modulation signal to be extracted. It used a form of detection called envelope detection and used a diode to rectify the signal.
- **Audio amplifier:** Audio stages to provide audio amplification were normally, but not always included.



RF  
Amplifier  
& Tuning



RF  
Amplifier  
& Tuning



Detector



Audio  
Amplifier

