

78 X X Series

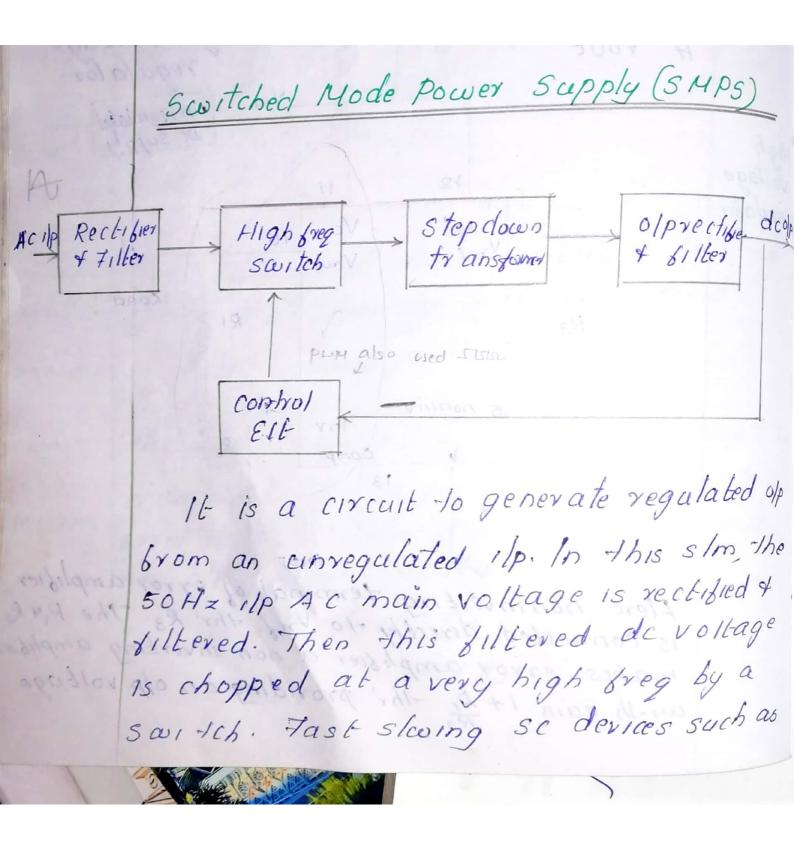
These are bixed the voltage regulators
There are 8 ICs in 78xx Series where xx
denotes the olp voltage.

 $7805 \longrightarrow O/P 5V$   $7806 \longrightarrow 6V$   $7808 \longrightarrow 8V$   $7810 \longrightarrow 10V$   $7818 \longrightarrow 12V$   $7815 \longrightarrow 15V$   $7818 \longrightarrow 18V$   $7824 \longrightarrow 24V$ 

79 XX Series

There are fixed -ve voltage regulations 10s which are complements to 78 xx series.

 $7902 \longrightarrow -2V$   $7905 \longrightarrow -5V$   $7905 \longrightarrow -5 \times 2V$   $7906 \longrightarrow -6V$   $7908 \longrightarrow -8V$   $7909 \longrightarrow -9V$   $7912 \longrightarrow -12V$   $7915 \longrightarrow -15V$   $7918 \longrightarrow -18V$   $7924 \longrightarrow -24V$ 



BJT or MOSFET are used as high breg slws. The chopped voltage is applied to the primary of a transformer + then stepped down to the required level. The olp of the transformer is again rectified + filtered to get the required devollage The old voltage is sensed by a control ckt that supplies a correction signal to vary the ON-OFF time of theslew & compensate for any change at the olp olp voltage à proportional lo lhe duty cycle of pulse sql used to control the switch if the olp voltage decreases, beed back ckt raises the duty cycle. Then the slowing device remains on for more amt of time & hence olp voltage les If the olp vollage tes, blb cet reduces The duty cycle. This makes the slaing device off for more time & hence the Olp voltage Ves. Acor - Regulated
DC DC olp 1 ON 44 dEF so de voltage