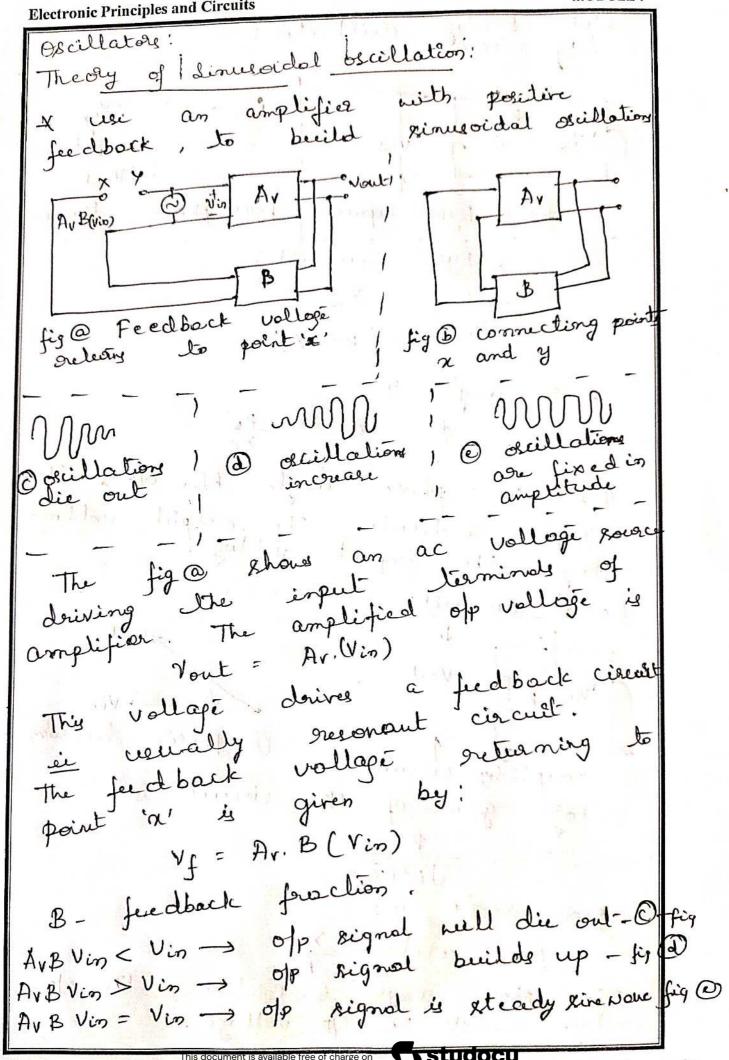


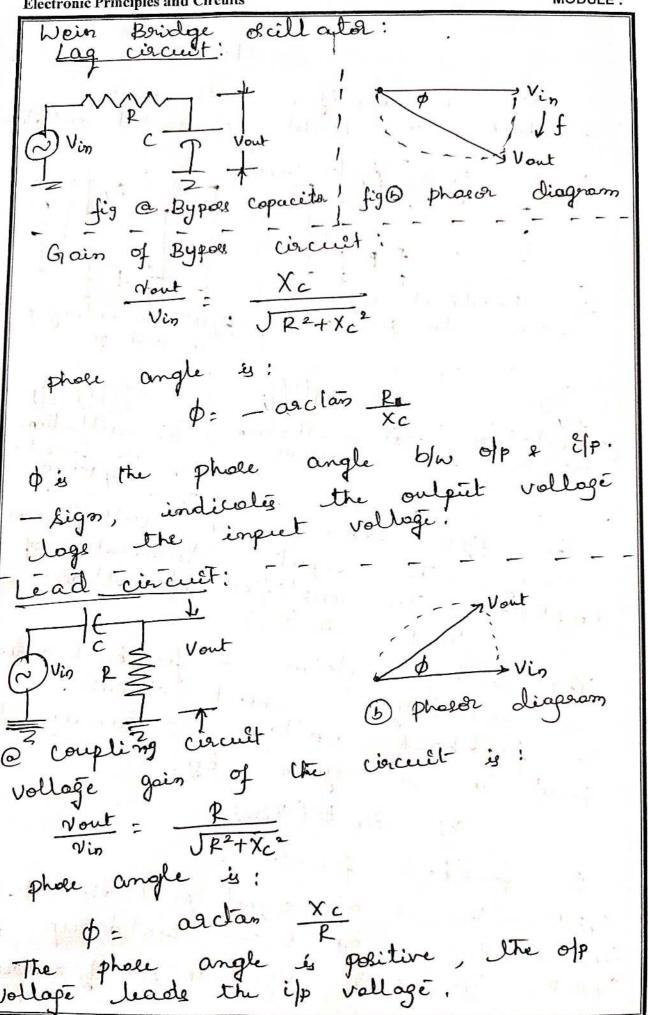
EPC module 3 B&C

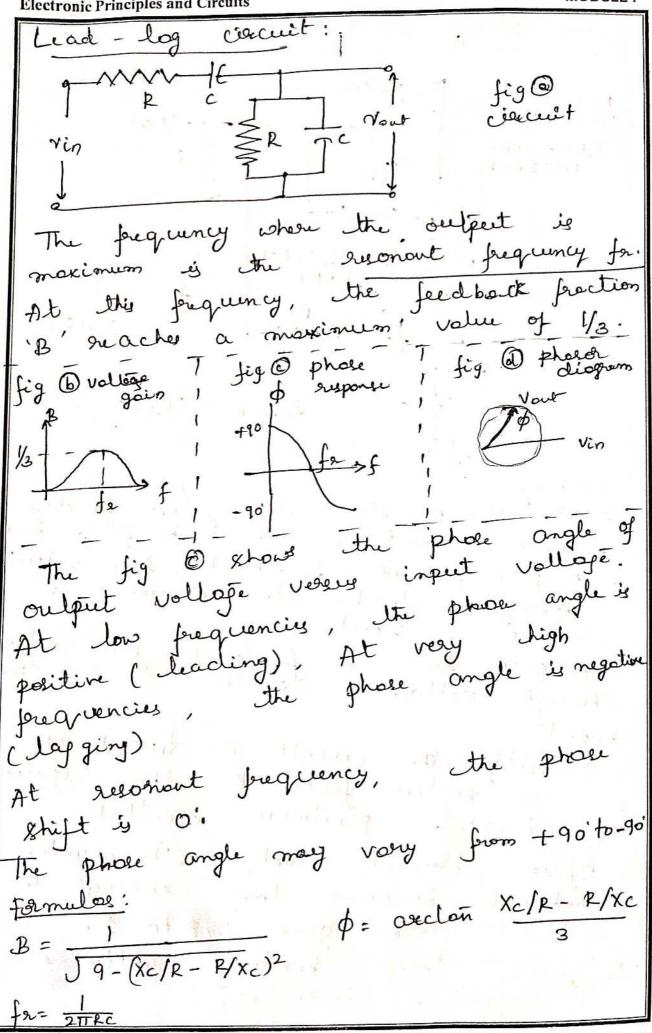
Electronic principles and circuits (Visvesvaraya Technological University)

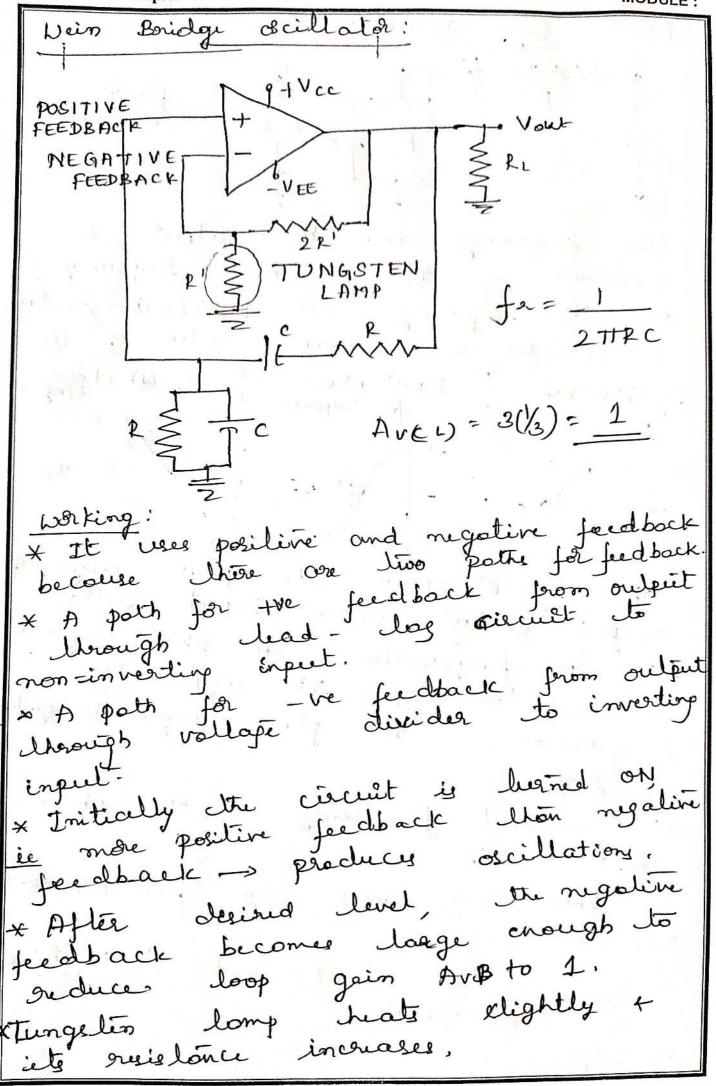


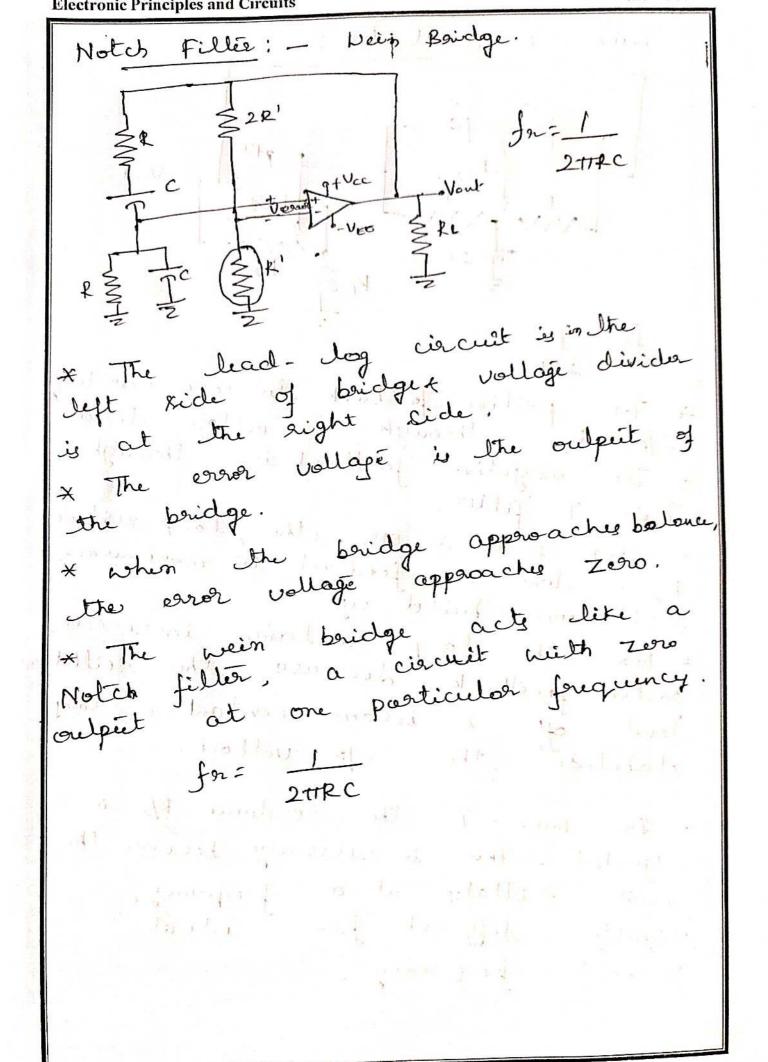
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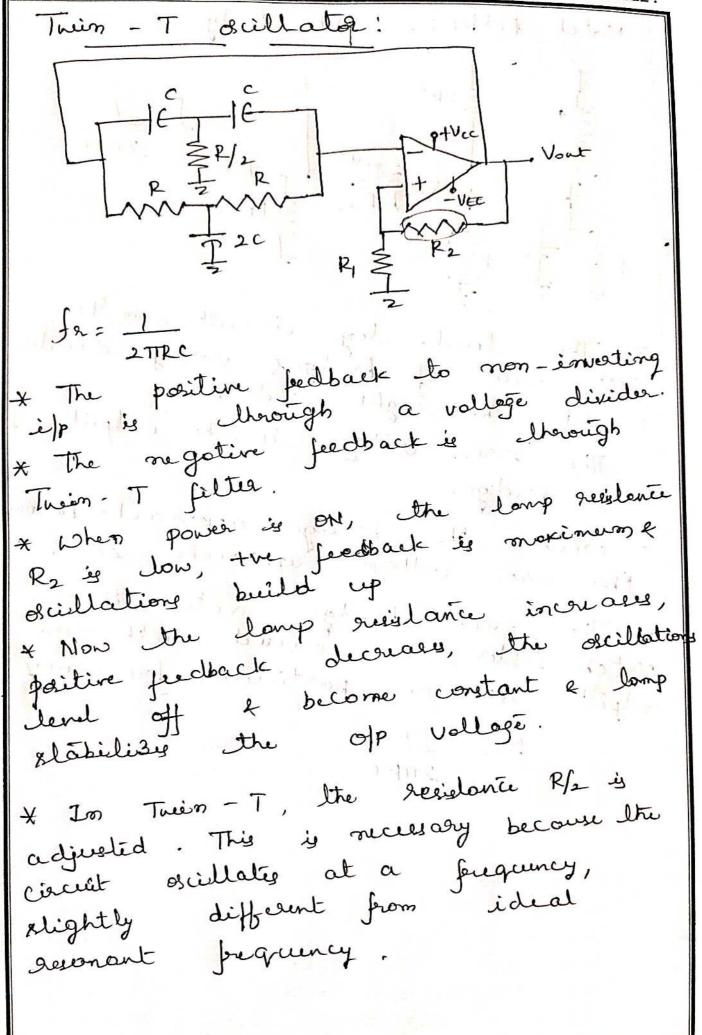


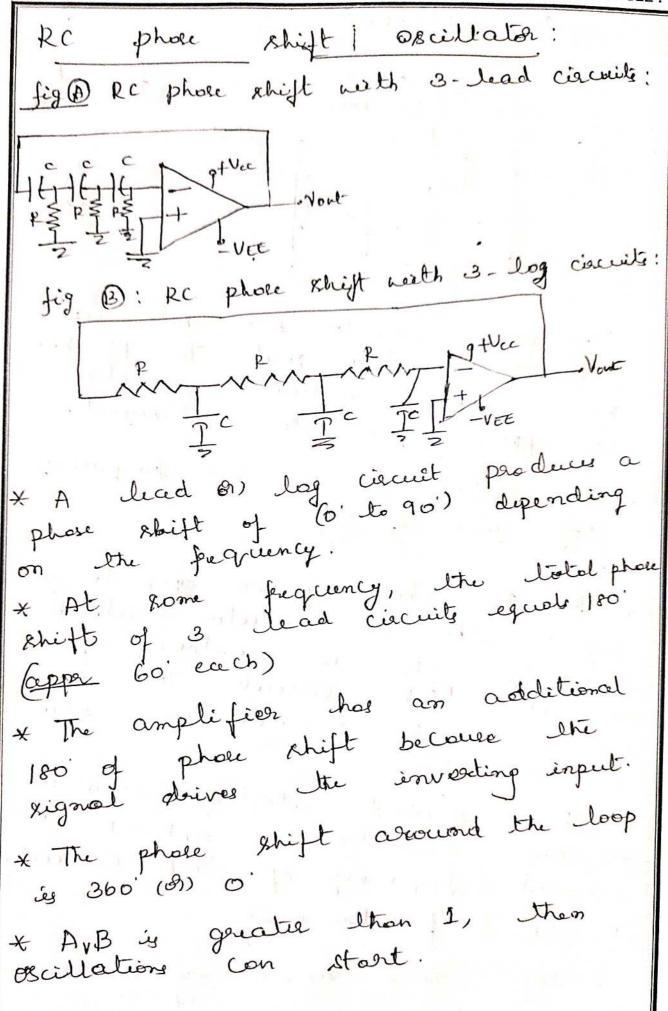


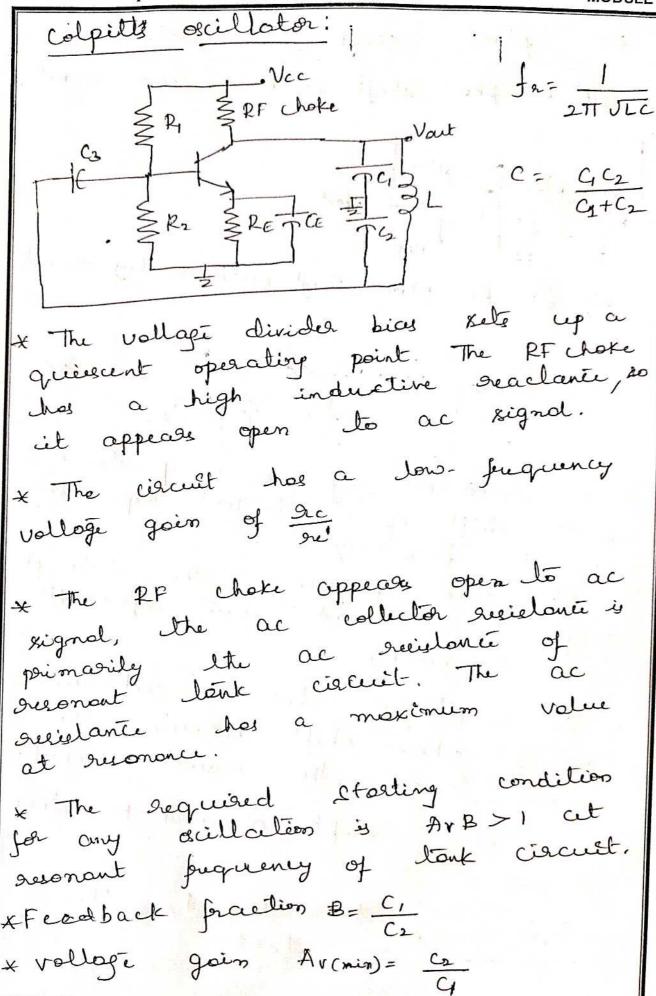


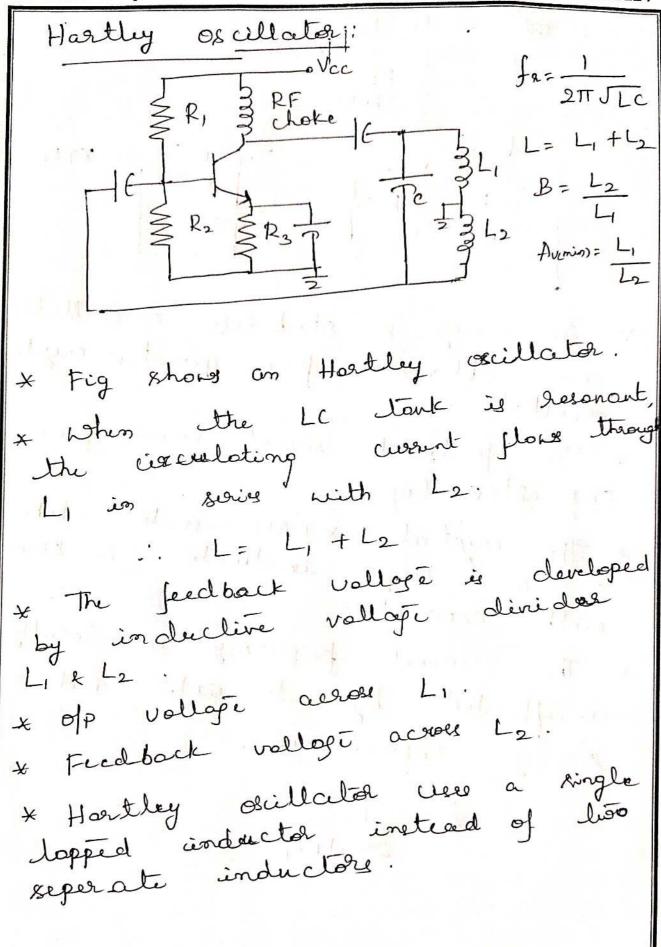


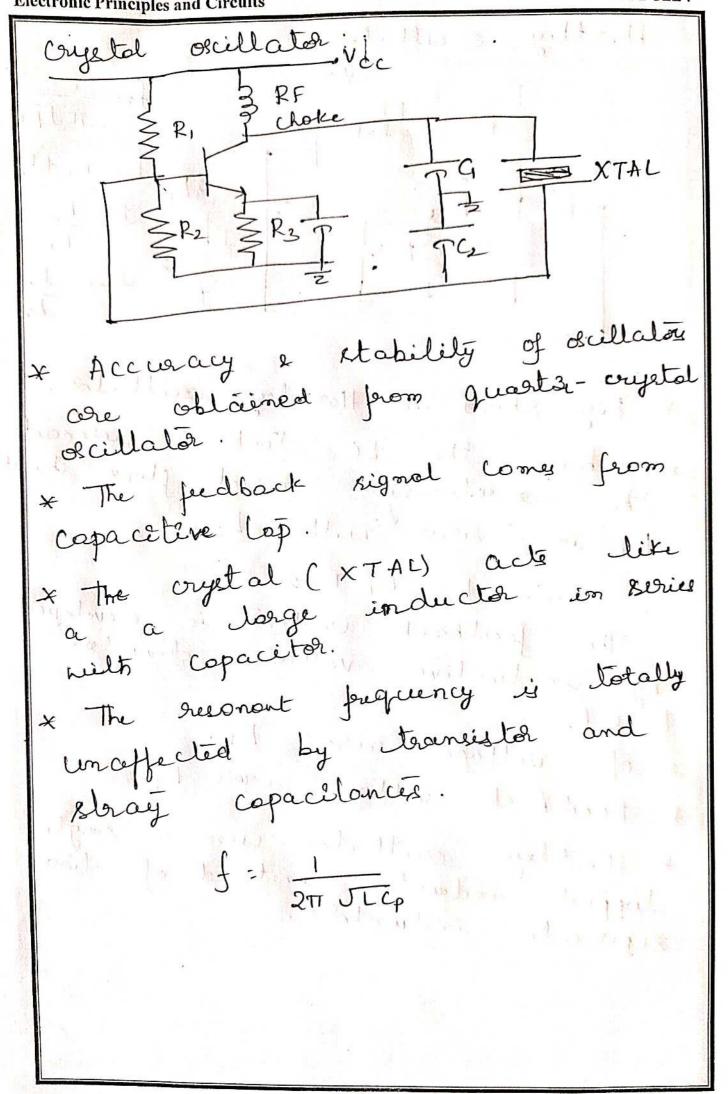


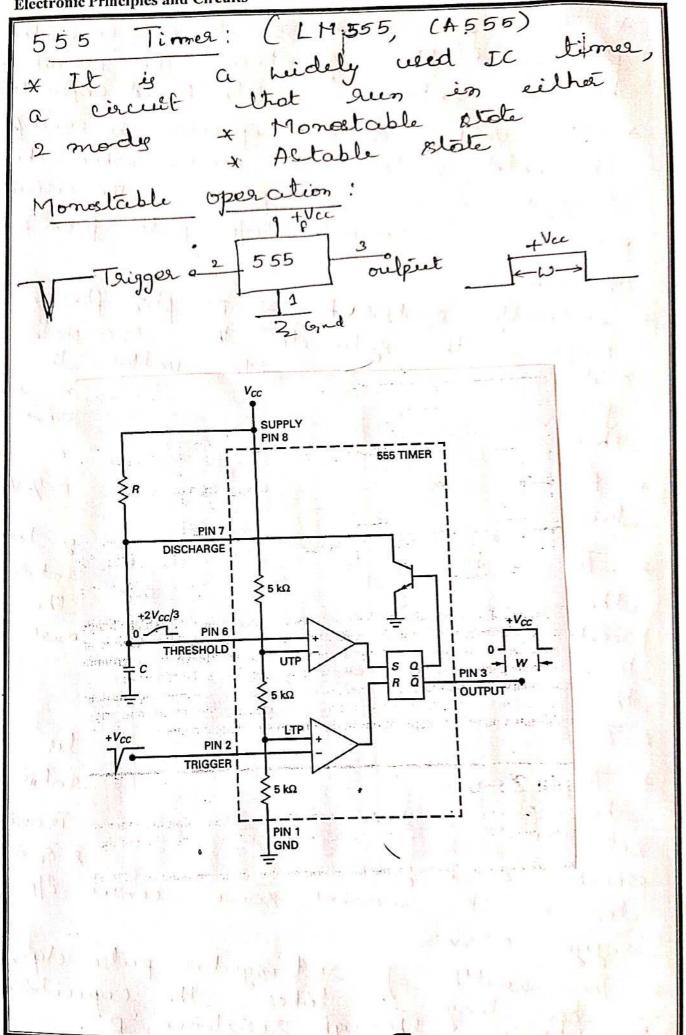




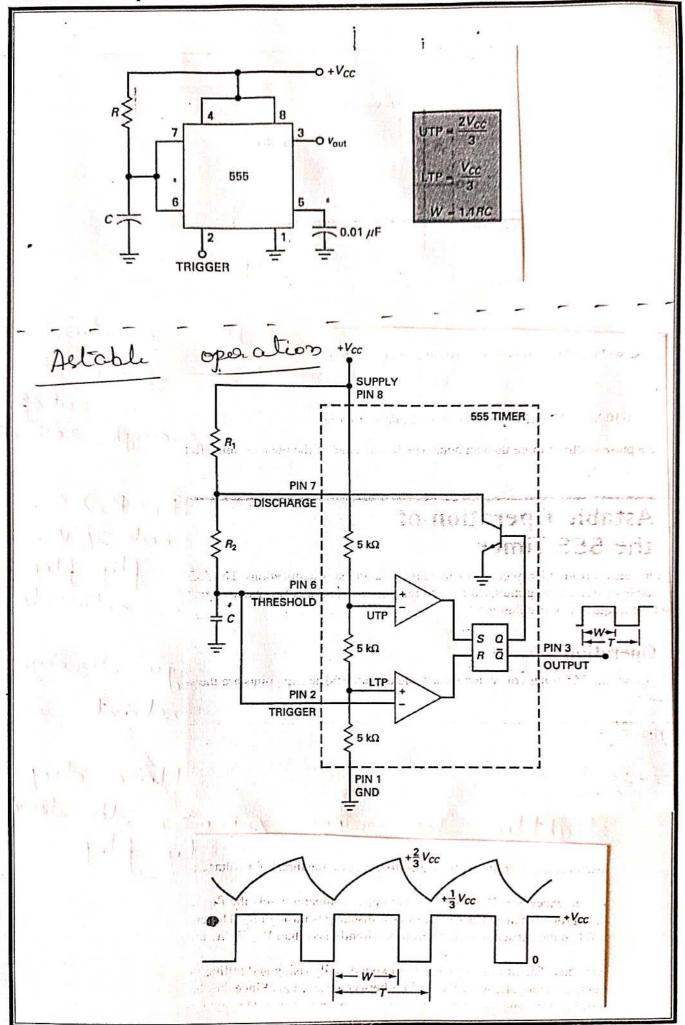




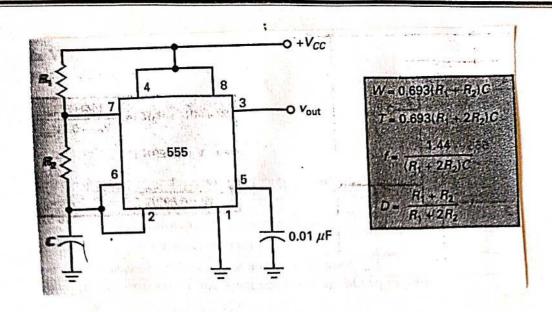




* The fig shows 5555 times connected for montitable operation. The circuit has an external resistar R'and capacitaic * The vollage a crose copacitor is used for Mreshold vollage to pin 6. when the taigger arriver at pin 2, the circuit produces rectongulor of pulse from pinz. operation: Initially goulpoint of RS flip flop is high, this solveales the transictor and clamps the capacitar vallage to ground. The circuit well remoin in this state until a trigger, arrives, * Becouse of vollage divider, ette toip pointe are UTP= 2/3 Vcc + LTP=1/3 Vcc * The trigger i/P falle to slightly less then 1/2 Vic , the lower Composator gesets History a is changed to low, the transista goes into cutoff, allows the capacitar to charge. e Q us high * The capacita vollage is greater thon 2/3 Vcc, the upper comparation sets the flip flop. Q-sig ON the Travieller which discharges the capacitor & a is low & it remains some until Elp teigger arriver. * The wealth of rectangular pulse depends on how long it lokes the copacitors' to charge through resistance 'R'.



Savitha M M, Assistant Professor, English & Col Tharge on



* The trip points for astable operation are: UTP= = Vcc & LTP= = Vcc e copacitée is chaleging thérough resistant R= R, +R2 * Chalging time constant is (R,+R2) C. * The thrushold vollage exceeds 26 Vcc. the upper comporation sets flip flop. Q is high, the transister solveales and grounds pin 7. * The Copacilar now discharges through R2, the discharge term constant is R2C. * Now, the capacitar vallage drops slightly less than 1/2 Vcc, the lower comparator resets the flip flop