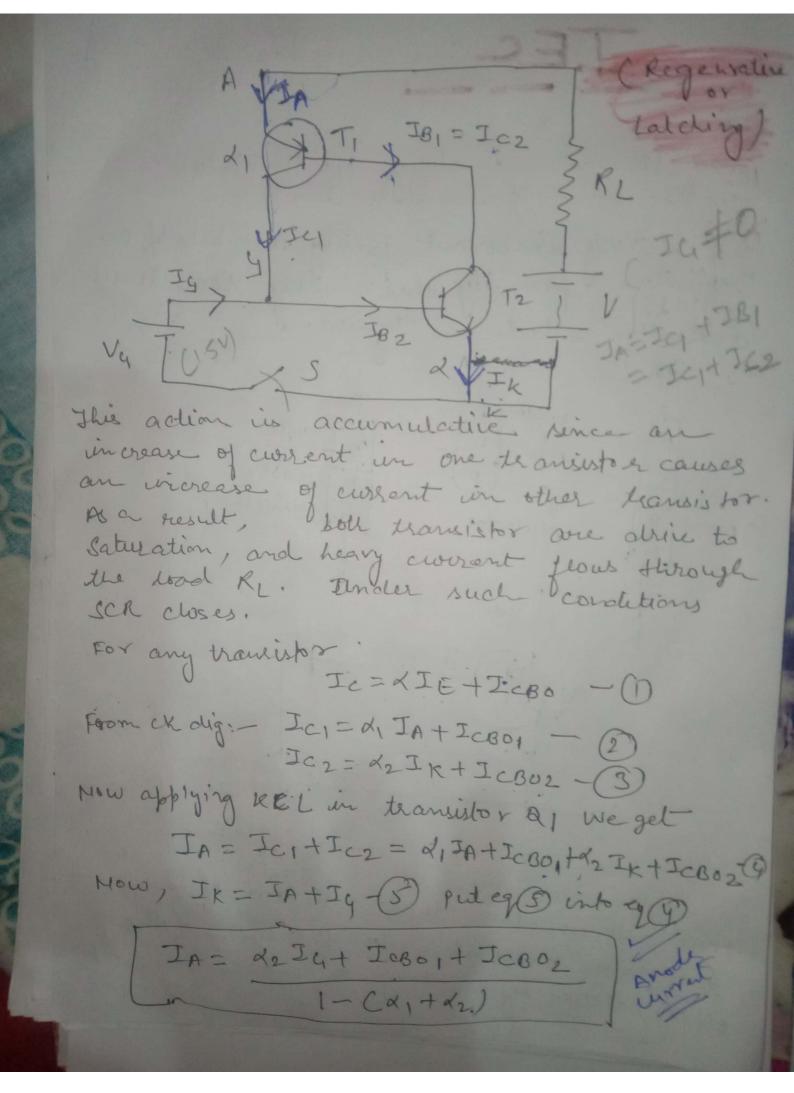
LEC Two Transisto & Analogy of Thyristor: SCR is very umportant family member of a Thyristor Jamily that is why sometimes called as Thyristor. Emiller P ni collector Base h p. Base n Emilder collector MOTE: - It is clear that Collector of each transistor in coupled to the base of the other there by making a positive feedback



ISCR TURM ON METHOD

O- By riving demperature [Thermal Triggering] JA= &IG+ICBO, + ICBOZ [1- (d1+d2)] As we A temperature (1,+1/2:) > 1, IA current will in crease and SCR will trigger. By light triggering method: - [optical triggering] Ne discuss here about [LA SCR] light Activated SCR. Normal sch triggering Light IA 74 X I deathode d cathede due to light coming from window ad Jz the EHPS are generated and J2 junction demi nistes current starts flowing from Anode to Callode

high voltage: + forward veltage briggering ogate VBO VINOVBO Formand Break over voltag By Gale Current - [gate triggering] By timere asing de lat triggoring? dv -) tale of change of voltage IT It all is very ligh Ic is sufficient to turn OM SCR.

is turned Generally sch F. C1.5V voltage ad 900 conducting MOTE: - By applying the stoots (Agrically 1.5 V, 30 mA) terminal To operate SCR Junction II, IZ Fud bias.