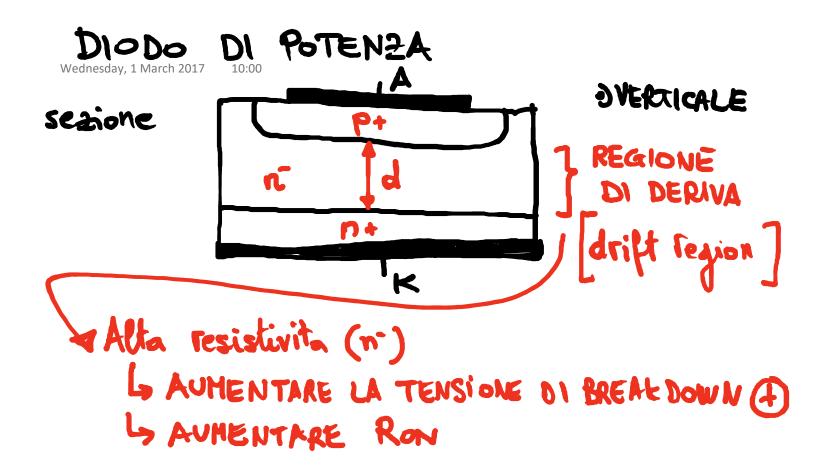
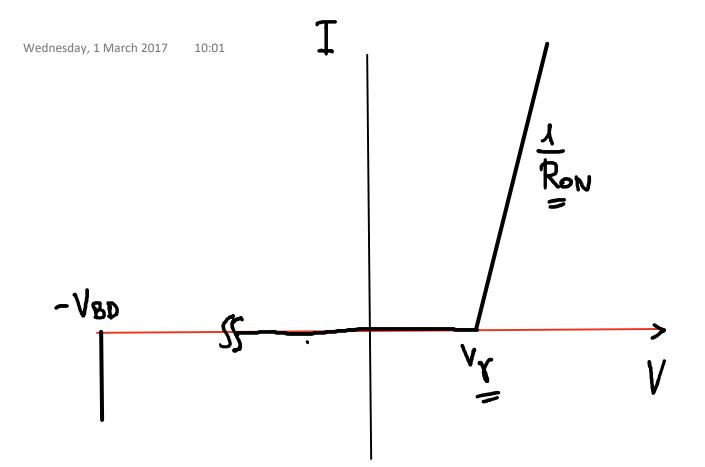


Idealmente voglio usare componenti che Wednesday, 1 March 2017 09:32 09:32 non dissipino potenza

~~~

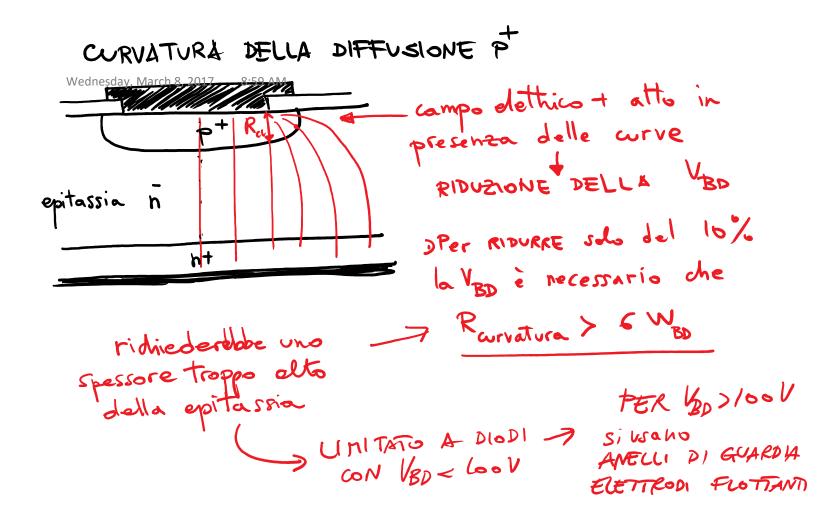


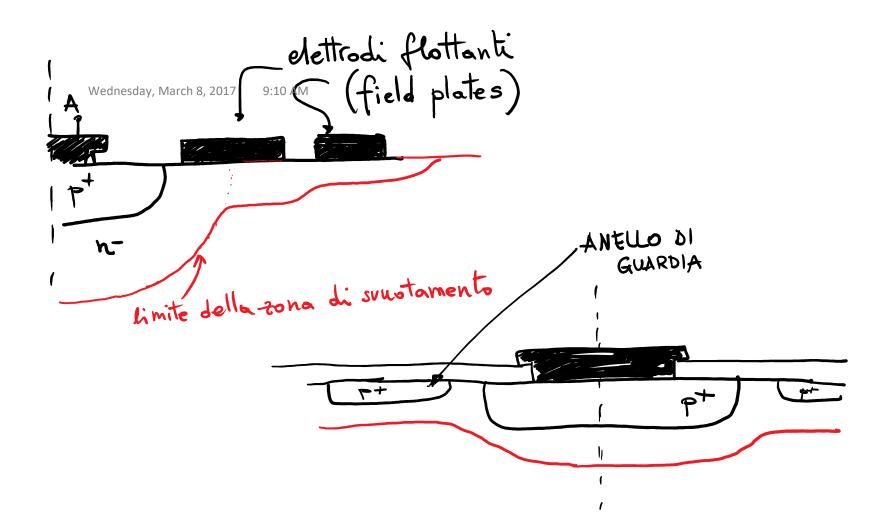


DIODO SENZA PUNCHTHROUGH  
Wednesday, I March 2017 1001  
3 la Zona di svuotamento NoN ragaiunge la  
regione nt 
$$\rightarrow$$
 tutto il potenziale de nella  
regione di deriva  
W spessore delle Zona di svuotamento  
 $E_{max} = \frac{qN_{D}W}{E_{E_{T}}} \qquad \varphi = \frac{1}{2} \frac{qN_{D}W^{2}}{E_{E_{T}}} = \frac{E_{max}}{W}$   
AL BREAKDOWN  
Es.  $E_{BD} = \frac{2\cdot10^{5} V/cm}{V/cm} \rightarrow W_{BD} = \frac{100\mu m}{2000}$   
 $M_{BD} = \frac{100\mu m}{100\mu m}$ 

## CON PUNCHTHROUGH Wednesday, March 8, 2017 8:46 AM ) LA REGIONE DI SULOTAMENTO ARRIVA ALLA ZONA NT - qNJ A Emax ε<sub>2</sub> n<sup>+</sup> p n × 0 O REGIONE DI DERIVA = <u>36</u> d× $\phi = (\mathcal{E}_{\max} + \mathcal{E}_2) d$ EsEs $\mathcal{E}_{2} = \mathcal{E}_{max} - \frac{qN_{D}}{\varepsilon \varepsilon_{s}} d$ ) caso limite [Nd > 0 > E2 v Emax] = Emax d AL BREAKDONN $V_{BD} = \mathcal{E}_{BD} d$ A parita di de EBD abbiamo VBD = 2x il coso di diodo

senza punch through



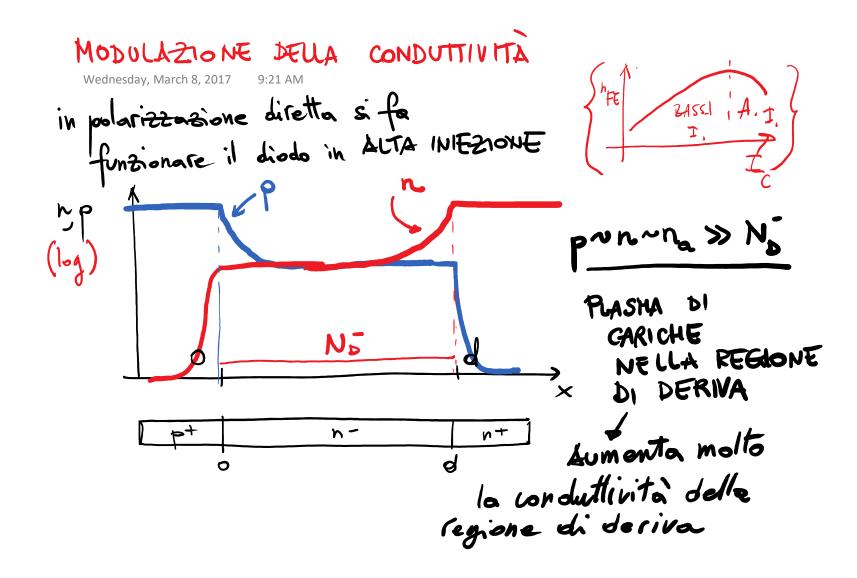


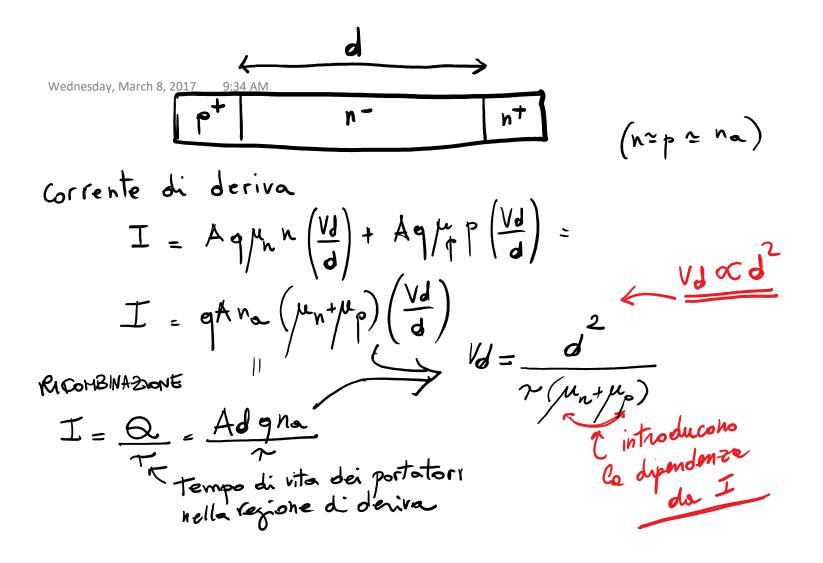
GESTIONE DELLA SUPERFICIE

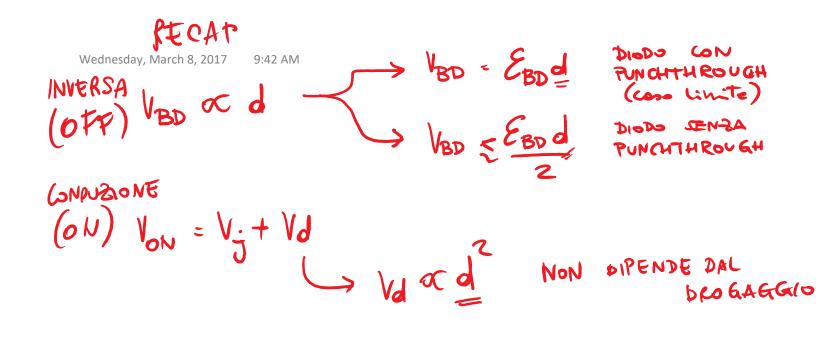
Wednesday, March 8, 2017 9:16 AM

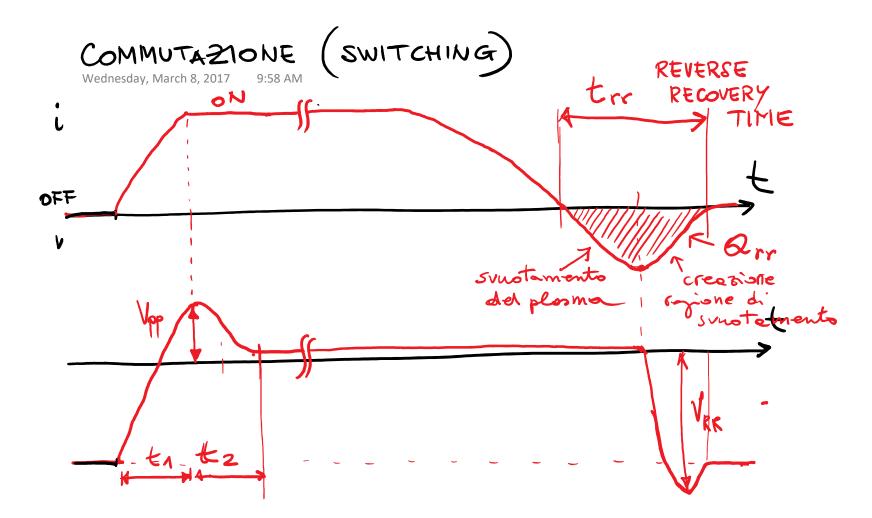


st BEVELING si aumenta la lunghezza delle lince di fotza per ridurre il compo elettrico. all'interfecció con l'aria

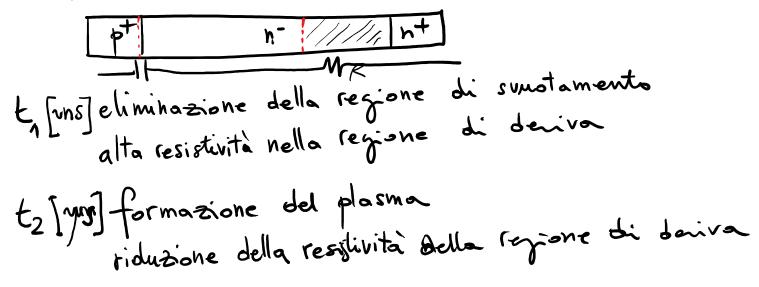


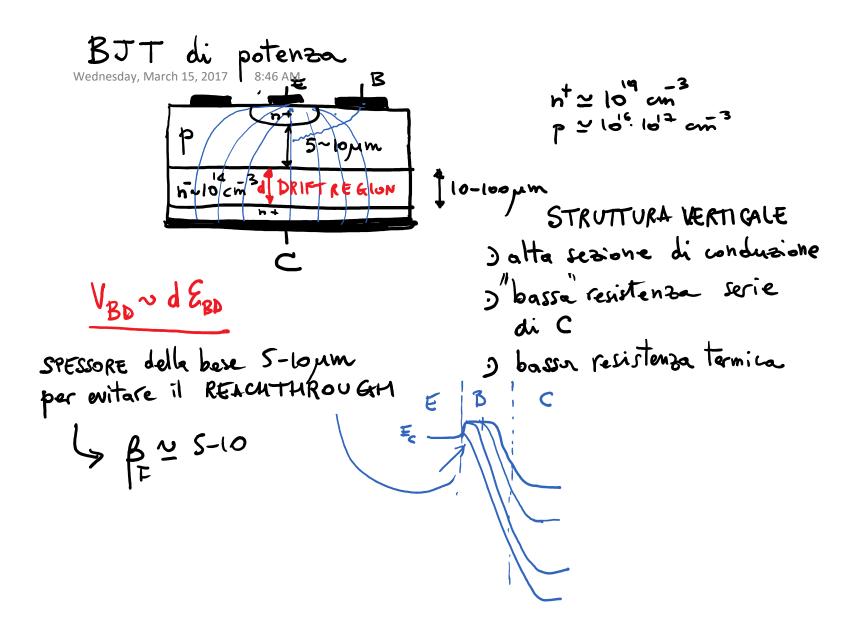


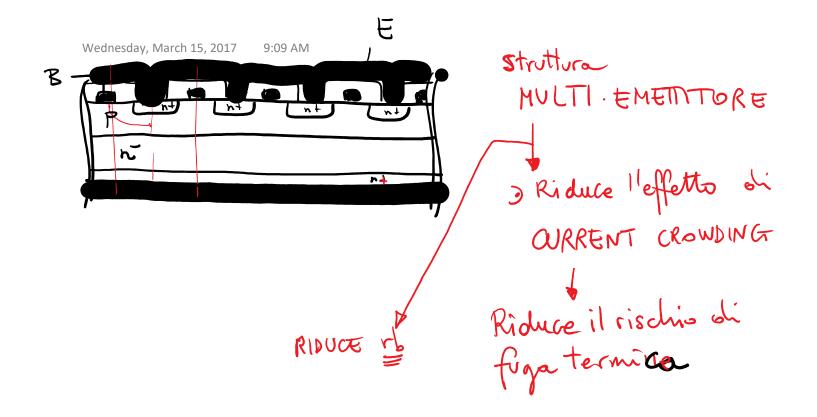


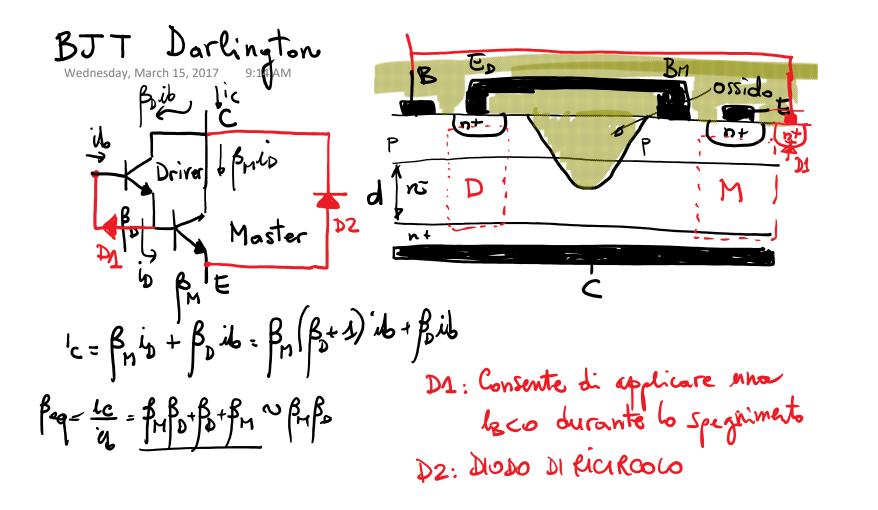


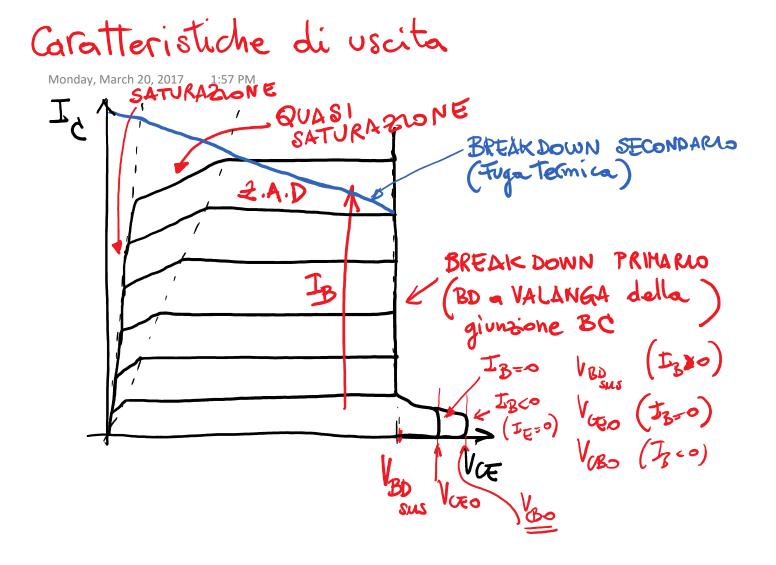
Wednesday, March 8, 2017 10:02 AM



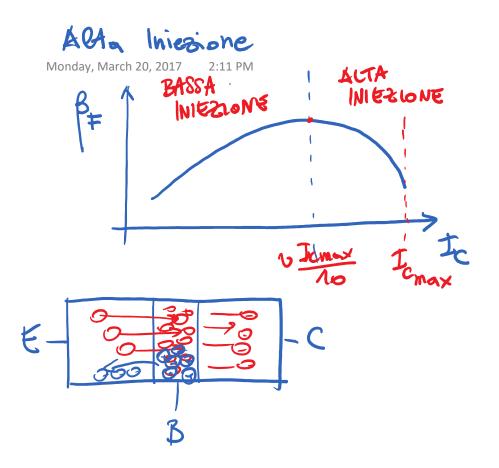


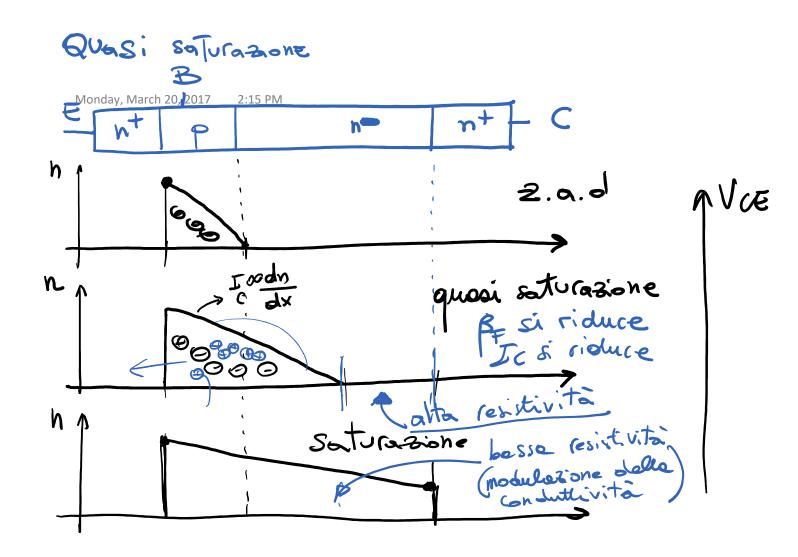


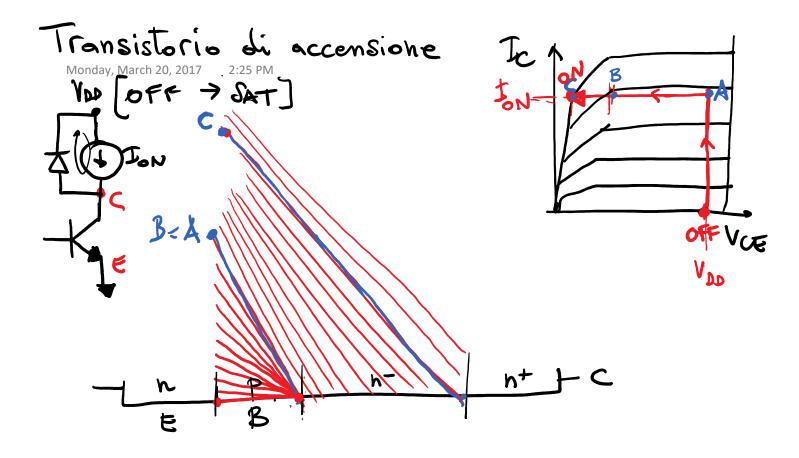


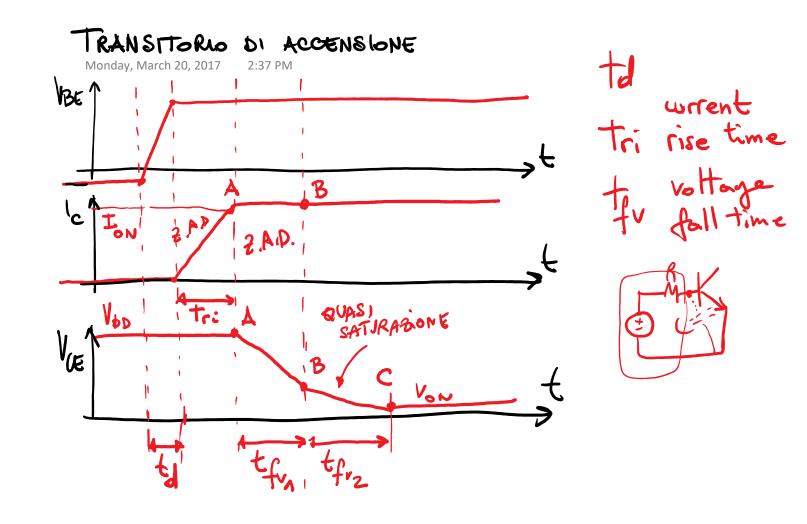


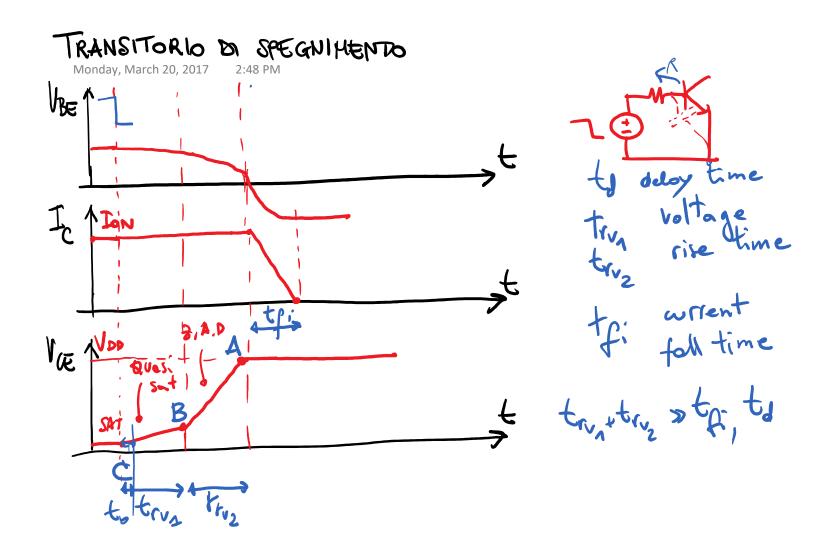
## Page 20

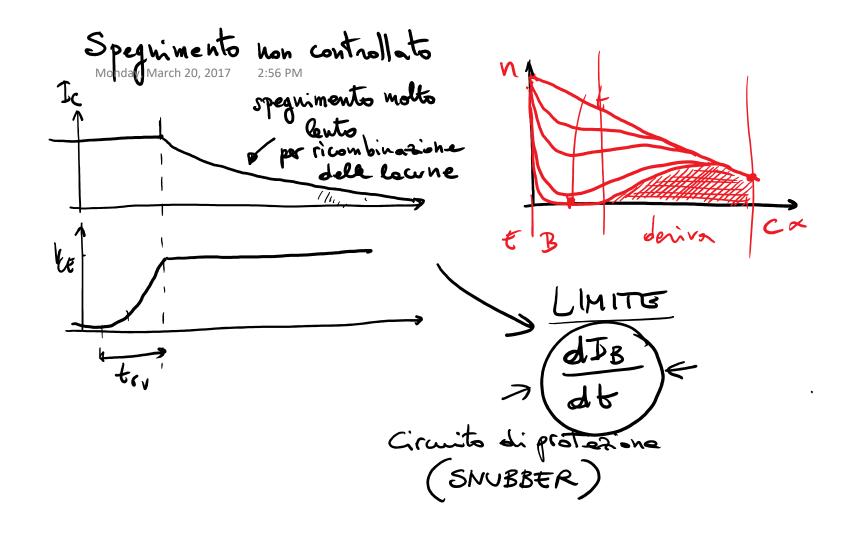






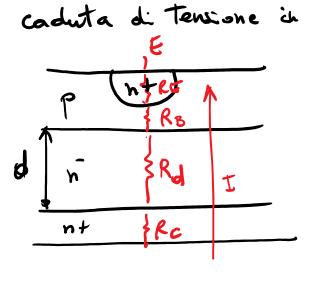


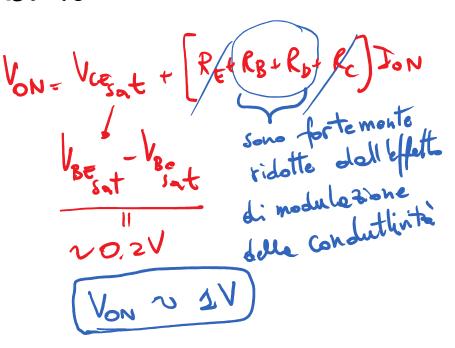


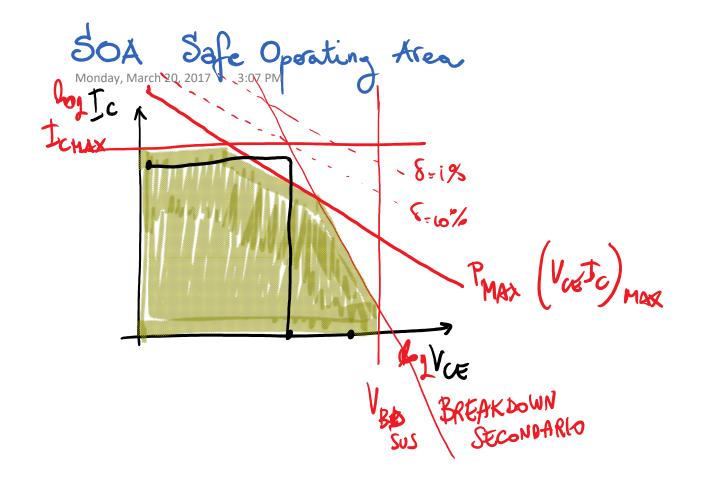


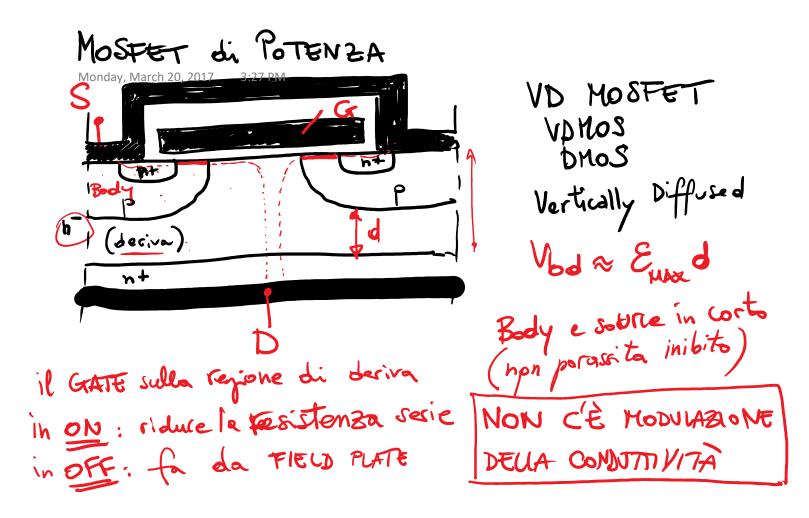


ich Loho he Tensione



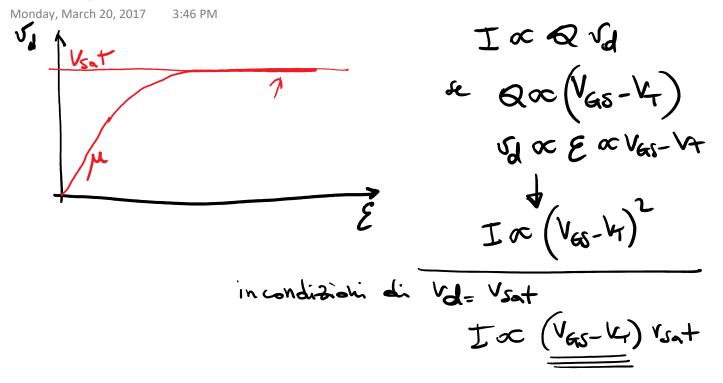




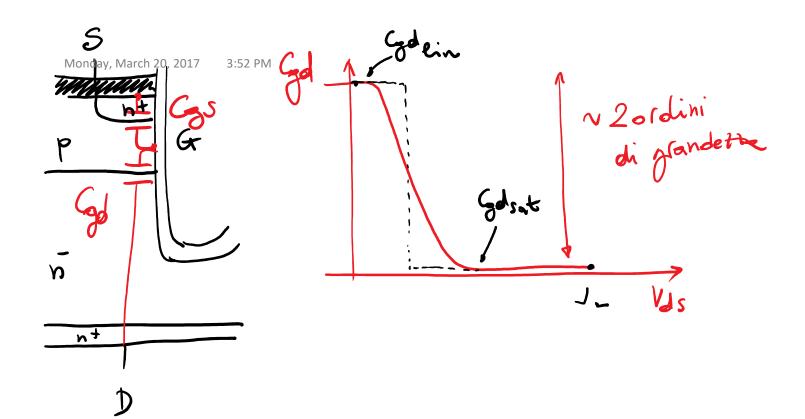


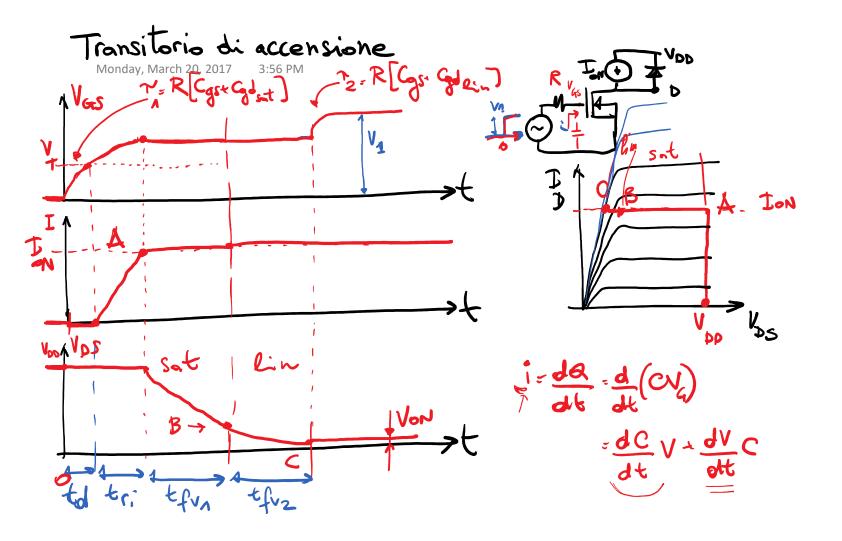


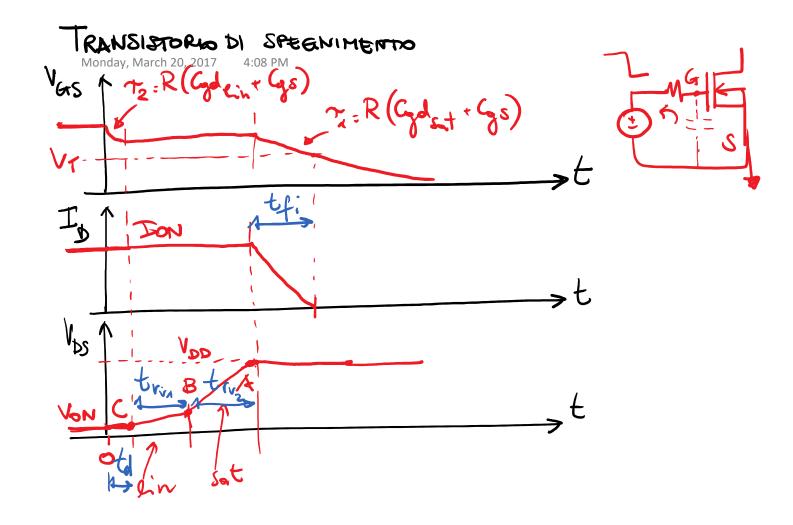
Saturazione della volocità

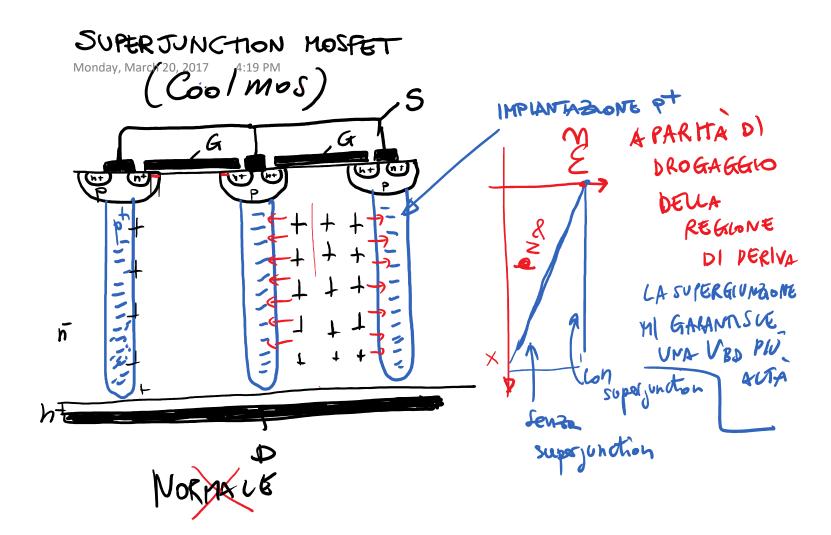


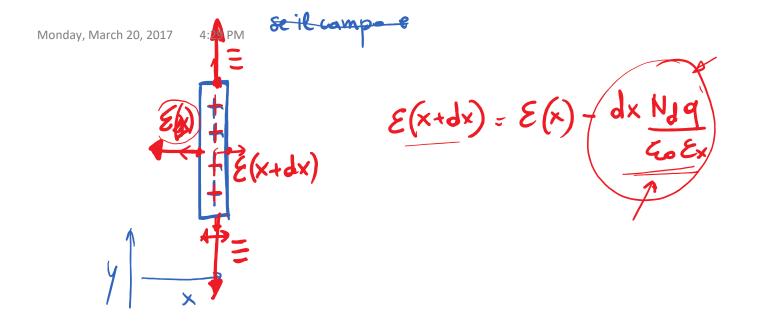
Caratteristiche di uscita Monday, March 20, 2017 3:50 PM J otta Rd V<sub>65</sub> X Vss Vss caratteristiche comisperiate



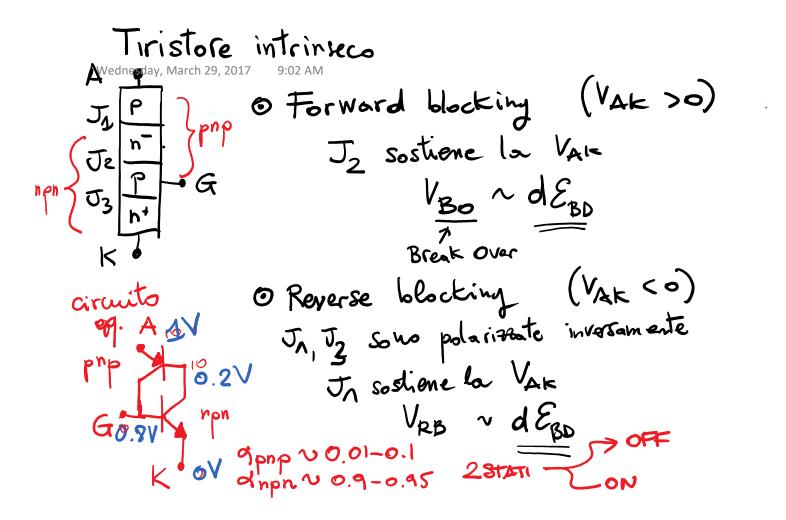


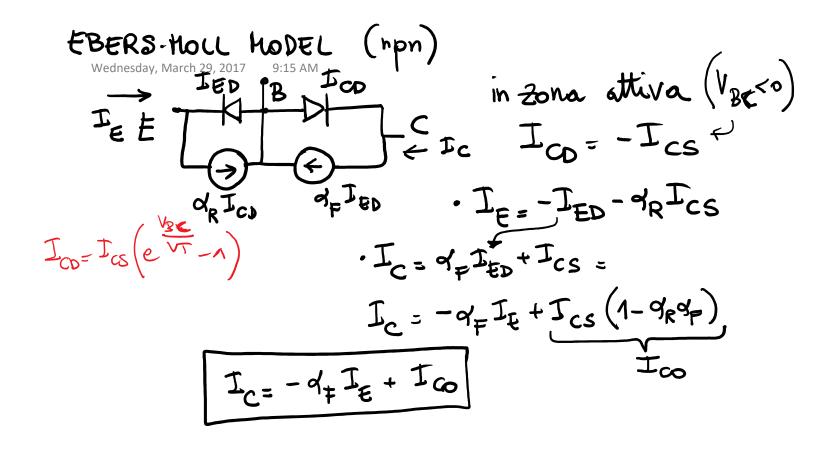


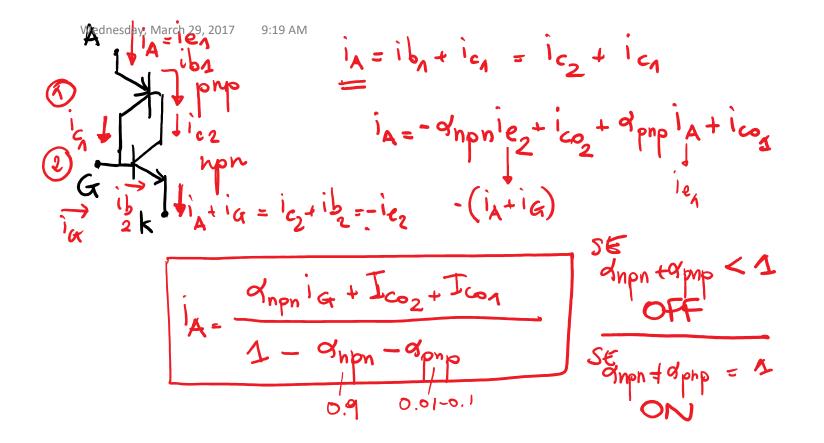


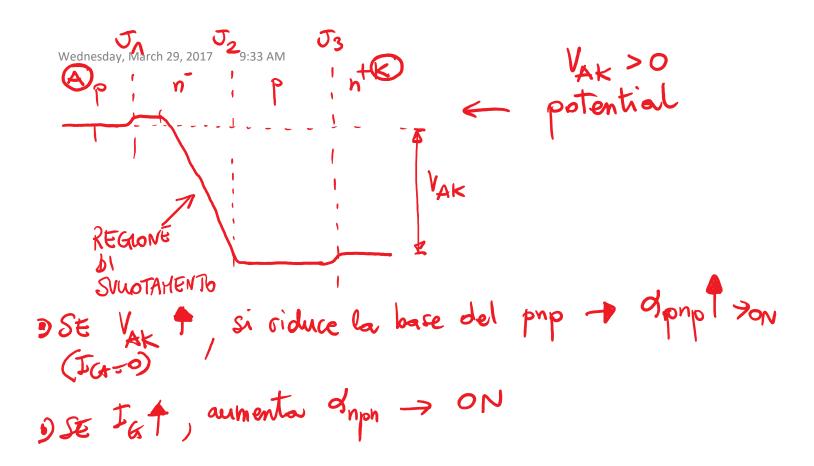


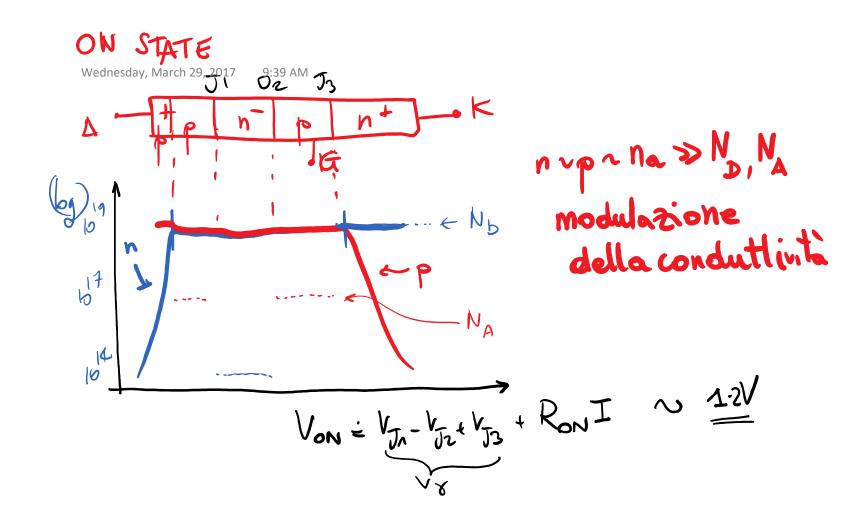
TIRISTORE (Thyristor) Wednesday, March 29, 2017 8:55 ANT SCR (Silicon controlled Pectifier) GE 57 G K n+1017 cm3 G P deriva 10 cm EJ, 1017 cm 3 P Pt A  $\mathbf{A}$ 











TURN OFF

