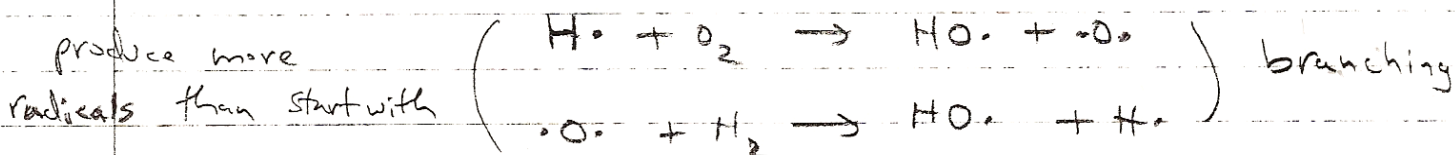


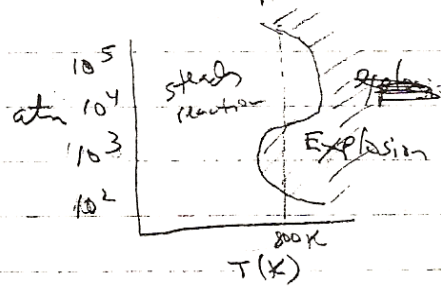
# Explosions

- 1) thermal explosion
- 2) chain branching explosion

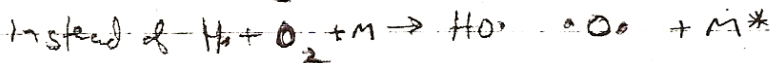
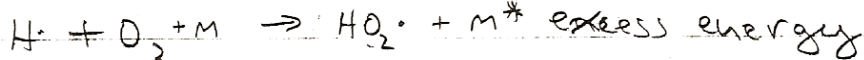


Chain branching occurs <sup>above</sup> ~~at~~ minimum temperature and for range of pressure

too low pressure radicals combine after colliding with walls



too high pressure 3 particle collisions can help carry off



very high pressure thermal reaction rate increases  
 as thermic temp  $\nearrow$  rate  $\nearrow$  the temp increases then rate etc.  
 etc.