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Fuel Air Valto- when the minture, slithly richer Say persound 10 1, the temp are very high 6 coz of this higher temp are regulation lag Scrubt in velocity of Flame Propagation but the effect of reduction in ignitron Lag is more and hence the Knocking Tandancy Increases at about Slitly ticher mixture therfor to sepressed detonation the mixture is made - Either richer or Leaner. Pre- ignition - ignition of homogeneous mixture of air and Ful pefore the initiation of spark is known as Pre agnition. Het it is caused by Local Over heating of Tombutton

m SI Engine uniform A/F mixture 1 Supplied, but CI Engine ALF mixture is homogeneous and fuel remain in liquid Particles, therefore quantity of air supplied is so y, to 70 y, more than this chiometers The combution in SI Engine starts I One Point and generated Flame the mixture for burning of the mixture. for burning af the mixture. I Engine The Combactron topa Place at No: of Point Simulaheously and No. of Flames generated are also

Stage of combustion in CI engine

Stage of combutton in CI Engine 1- Signition delay period | Are Flame combution 2- tentont un control combutton feul combutton feul franction to After burning. (4) After burning. , ignition lag. (1) ignition delay of the fuel does not ignite immediately upon injection and actual burning this period is Known as the ignition delay period. ignition delay & devided into parts &