CHAPTER 4

PERTURBATION EFFECT OF ALCOHOLS ON THE DYNAMIC OSCILLATORY BEHAVIOUR OF BRIGGS RAUSCHER (BR) REACTION

![Diagram of chemical reactions and time vs [R] graph]

- Reaction equations:
  
  $R_2COH \rightarrow R_3COH \rightarrow R_3C^* + OH$ 

- [R] in mol/L vs time in s graph:
  
  - Initial concentration: $0.5 \times 10^{-7}$ mol/L
  - Concentration increases over time, showing oscillatory behaviour.

- Structural formulas of reactants and products:
  
  - $R_2COH$: Aldehyde or Ketone
  - $R_3COH$: Carboxylic Acid
  - $R_3C^*$: Radical
  - OH: Water

- Chemical structures shown in the diagram:
  
  - Aldehyde or Ketone (RCH0H)
  - Carboxylic Acid (RCH2COOH)
  - Radicals (R3C*)
  - Water (H2O)

- Time axis ranges from 0 to 3500 s, with concentration values ranging from 0 to 1.6