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## CHAPTER VI

### SUMMARY

The results from the experimental studies of the oscillatory behavior of the Belousov-Zhabotinskii reaction have been presented in the previous chapter. It has been shown that the induction period, the oscillatory periods and the duration of the bromide ion oscillations, studied by potentiometric method depend on the initial concentrations of reactants while shapes of the oscillating waveform are dependent upon types of electrodes used, It was found that the amplitude of the oscillations depends on both initial conditions and types of electrode. It has also been shown agreements between our results and the literature values reported by Field, Körös & Noyes ( 23 ).

The phase relationship behavior of the Belousov-Zhabotinskii reaction has been measured at various time intervals. The results were obtained from the two relative potentials, using the platinum/glass electrodes against the platinum/saturated calomel electrodes. Shape and size of these phase relationship vary as the concentrations of the reactants were slowly consumed.

The temperature measurements of the Belousov-Zhabotinskii reaction have also been studied. It can be concluded that the observed temperature oscillations reported in the literature ( 46,47,48 ) were due to the incomplete thermostating of the reaction vessel as the consequence of the exothermicity of the reaction and the rapid period of the oscillations.