

## P R E F A C E

The work "Formation and Cleavage of cyclopropane ring systems and related studies" was taken up in July 1931, under the supervision of Prof. S.C.Roy, Department of Chemistry, North Bengal University. The main purposes of the study was to elucidate and reinvestigate some aspects of cyclopropanation reactions and the reactivity of some cyclopropane systems.

The cyclopropanation reactions studied encompasses both carbonoid as well as non carbonoid methods and it is thought advantageous to include them in Part - A of the thesis and Part - B is mainly devoted to the study of Cleavage and functionality transformation of cyclopropane systems.

Chapter - I Deals with reviews and mechanisms of the preparation of cyclopropane in both carbonoid and non carbonoid methods. In addition to these, a brief review of catalytic effect under thermal as well as under irradiation is included in this chapter.

Chapter - II contains the scope, objectives and summary of the cyclopropanation reactions.

The main part of the work is discussed in Chapter - III. It also includes some review and discussions of the spectral methods for structural elucidation of cyclopropane derivatives.

The procedures for the preparations have been reported in the Chapter - IV.

Part - II of the thesis begins with Chapter - V which contains some relevant reviews of cleavages and reactions of cyclopropane derivatives.

The scope, objectives and Summary of these type of reactions have been discussed in Chapter - VI. The main text of this part of work is included in Chapter - VII.

Chapter - VIII is dealt with the experimental procedures adopted.

The preparations of different starting materials and catalysts are discussed separately in the Appendix - I of the thesis.

The relevant references are cited separately at the end of the two parts of the thesis. Some other additional references have been put in Appendix - II.

A general conclusion have been drawn at the end of the thesis.