PREFACE.

The work embodied in this dissertation concerns mainly with the synthesis of several thiopenan derivatives (thiazoloquinazolines) (Part I) of both linear and angular varieties.

In concord with their structural features which are akin in certain ways both to penicillin and febrifugine, these hetero-systems exhibit both patterns of activity—antibacterial and in certain instances, antimalarial.

In the prologue is provided a consideration of some of the physical and biochemical factors, vis-a-vis biological activity. Some of the important structural features of the well known existing drugs are enumerated and some inferences drawn therefrom.

The work also includes the synthesis of various intermediate chlorothiazoles and related 2-hydroxy thiazoles by simpler routes and thiazoline derivatives which have been dealt with in Part II and III respectively. Wherever possible suitable mechanisms for the various reactions involved in the syntheses have been given. Protocol on the antibacterial testing of some of the compounds is provided in the appendix. The references have been catalogued together for all the parts as many of them are common.

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