

PREFACE

The thesis entitled "Dielectric studies of some organic molecules in the liquid state" is submitted for the degree of Doctor of Philosophy (Science) of North Bengal University, India. It embodies the result of investigations on the microwave absorption of some rotational isomeric molecules and some ester molecules in the liquid state, carried out at the microwave absorption laboratory of the Optics Department at the Indian Association for the Cultivation of Science, Calcutta 700032, India.

It starts with general introduction surveying the historical development of dielectric studies which is followed by experimental technique adopted in the present investigations. The thesis is divided into two parts. The first part comprising of five chapters, discusses the results obtained in the case of some rotational isomeric molecules, while the second part is treated with the results obtained in some ester molecules.

The results of the investigations have been published in the form of several papers in different scientific journals. The reprints of papers which are available have been added at the end as an appendix.

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