Preface

The thesis is incorporated with the results on fuzzy N-subgroups and fuzzy ideals of near rings as well as near ring groups.

In the introductory chapter the origin, objective of the work and summary of the results from chapter I to chapter V are briefly presented.

Chapter-I deals with the preliminary definitions and results that is available in the standard literature.

The main results of chapter-II form our paper ‘On fuzzy N-subgroups and fuzzy ideals of near rings and near ring groups’ published in ‘The Journal of Fuzzy Mathematics’.

The results of Chapter-III form the paper ‘On fuzzy homomorphism and fuzzy isomorphism’ which is communicated to ‘Far East Journal of Mathematical Sciences’ for publication.


Most of the results of Chapter-V form the paper ‘Characterization of fuzzy substructures of a near ring and a near ring group’ published in ‘The Journal of Fuzzy Mathematics’. Some parts of this chapter form the paper A note on essential submodule’ which is communicated for publication in Indian Journal of Pure and Applied Mathematics.