Table of Contents

Table of Contents v

Introduction 1

Preliminaries 6

1 One Sided Ideals of Euclidean Near Rings \( N_\lambda(\mathbb{R}^n) \) 13
   1.1 Introduction .................................................. 14
   1.2 The Near Ring \( N_\lambda(\mathbb{R}^n) \) .......................... 15
   1.3 The Near Ring \( N_\lambda(\mathbb{R}^n) \) .......................... 26

2 Normed Near Algebras Through Semilinear maps 28
   2.1 Introduction .................................................. 28
   2.2 Semilinear Maps .............................................. 30
   2.3 A Hurwitz-Frobenious Type Theorem .......................... 42

3 Some more results on Normed Near Algebras 49
   3.1 Completion of a Normed Near Algebra ...................... 50
   3.2 Normability ................................................... 57
   3.3 Embedding .................................................... 62

4 Semilinear Mappings 65

5 Further Scope of the Study 76

Bibliography 85