## TABLE OF CONTENTS

	page
Chapter I - The basic definitions	1
§1 - Locally semialgebraic spaces and maps	1
§2 - Inductive limits, some examples of locally semialge-	
braic spaces	11
§3 - Locally semialgebraic subsets	27
§4 - Regular and paracompact spaces	42
§5 - Semialgebraic maps and proper maps	54
§6 - Partially proper maps	63
§7 - Locally complete spaces	75
Chapter II - Completions and triangulations	87
§1 - Gluing paracompact spaces	87
§2 - Existence of completions	94
§3 - Abstract simplicial complexes	99
§4 - Triangulation of regular paracompact spaces	106
§5 - Triangulation of weakly simplicial maps, maximal	
complexes	113
§6 - Triangulation of amenable partially finite maps	124
§7 - Stars and shells	138
§8 - Pure hulls of dense pairs	146
§9 - Ends of spaces, the LC-stratification	156
§10 -Some proper quotients	178
§11 -Modification of pure ends	189
§12 - The Stein factorization of a semialgebraic map	198
§13 -Semialgebraic spreads	211
§14 -Huber's theorem on open mappings	219

Chapter III - Homotopies	226
§1 - Some strong deformation retracts	226
§2 - Simplicial approximations	232
§3 - The first main theorem on homotopy sets; mapping spaces	243
§4 - Relative homotopy sets	249
§5 - The second main theorem; contiguity classes	257
§6 - Homotopy groups	265
§7 - Homology; the Huréwicz theorems	278
§8 - Homotopy groups of ends	286
Appendix A - Abstract locally semialgebraic spaces	295
Appendix B - Conservation of some properties of spaces and maps	
under base field extension	309
References	315
List of symbols	319
Glossary	322