

PART A	1
Section I	
Sets and Operations with Sets	3
Section II	
Spaces	6
Section III	
Directed Families	12
Section IV	
Compact Sets and Bolzano-Weierstrass Sets	14
Section V	
Functions	17
Section VI	
Metric Spaces and a Metrization Theorem	22
Section VII	
Diameters and Distances	28
Section VIII	
Topological Limits	31
Section IX	
Relativization	33

Section X	
Connected Sets	34
Section XI	
Connectedness of Limit Sets and Separations	38
Section XII	
Continua	41
Section XIII	
Irreducible Continua and a Reduction Theorem	43
Section XIV	
Locally Connected Sets	45
Section XV	
Property S and Uniformly Locally Connected Sets	48
Section XVI	
Functions and Mappings	51
Section XVII	
Complete Spaces	55
First Semester Examination	59
Section XVIII	
Mapping Theorems	66
Section XIX	
Simple Arcs and Simple Closed Curves	70
Section XX	
Arcwise Connectedness	74
Appendix I	
Localization of Property S	77
Appendix II	
Cyclic Element Theory	79
PART B	83
Section I	
Product Spaces	85

Contents	xi
Section II Decomposition Spaces	93
Section III Component Decomposition	100
Section IV Homotopy	105
Section V Unicoherence	111
Section VI Plane Topology	119
Appendix Dynamic Topology by G.T. Whyburn	130
Bibliography	145
Index	151