

Contents

Preface	iii
Contributors	ix
1. On the Topologies of Injective Spaces Bernhard Banaschewski	1
2. Convergence and Continuity in Partially Ordered Sets and Semilattices Marcel Ern�e and Hartmut Gatzke	9
3. Natural Topologies, Essential Extensions, Reductive Lattices, and Congruence Extension Gerhard Gierz and Albert Stralka	41
4. The Fell Compactification Revisited Rudolf-E. Hoffmann	57
5. The Trace of the Weak Topology and of the Γ -Topology of L^{op} Coincide on the Pseudo-Meet-Prime Elements of a Continuous Lattice L Rudolf-E. Hoffmann	117
6. Complete Distributivity and the Essential Hull of a T_0 -Space Karl H. Hofmann	121
7. Free Objects in the Category of Completely Distributive Lattices Karl H. Hofmann and Michael Mislove	129
8. Discontinuity of Meets and Joins John Isbell	151
9. Vietoris Locales and Localic Semilattices Peter T. Johnstone	155
10. On the Exponential Law for Function Spaces Equipped with the Compact-Open Topology Panos Th. Lambrinos	181
11. The (Strong) Isbell Topology and (Weakly) Continuous Lattices Panos Th. Lambrinos and Basil Papadopoulos	191

12.	Obtaining the T_0 -Essential Hull Jimmie D. Lawson	213
13.	The Local Approach to Programming Language Theory Areski Nait Abdallah	219
14.	Algebraic Lattices as Dual Spaces of Distributive Lattices Hilary A. Priestley	237
15.	Scott Topology, Isbell Topology, and Continuous Convergence Friedhelm Schwarz and Sibylle Weck	251
16.	Projectiveness with Regard to a Right Adjoint Functor Manuela Sobral	273
17.	Lattices and Semilattices: A Convex Point of View Marcel van de Vel	279
	The Continuous Lattices Bibliography Rudolf-E. Hoffmann, Karl H. Hofmann, and Dana S. Scott	303
	Index	361