CONTENTS

roduct	ION	vi
AN INT	RODUCTION TO ABSTRACT FUZZY TOPOLOGY	
1.2. 1.3. 1.4.	Basic structures Categorical reflections Convergence	1 3 9 18 23
2. SPACES OF PROBABILITY MEASURES ON A SEPARABLE METRIZABLE SPACE		
		31 41 41 45
SPACES	OF RADON PROBABILITY MEASURES ON A LINEARLY ORDERED SPACE	
3.4.	The α -level spaces of the fuzzy real line	7 (81 88 91 104 114
SPACES	OF (UPPER SEMICONTINUOUS) FUNCTIONS ON A UNIFORM SPACE	
4.3. 4.4. 4.5.	Characterization of the uniform modification and of the α -level uniformities Compactness, precompactness and separation A Lagrange-type interpolation theorem	12: 13: 14: 15: 16: 17:
	AN INT 1.1. 1.2. 1.3. 1.4. 1.5. SPACES 2.1. 2.2. 2.3. 2.4. SPACES 3.1. 3.2. 3.3. 3.4. 3.5. 3.6. SPACES 4.1. 4.2. 4.3.	 1.2. Basic structures 1.3. Categorical reflections 1.4. Convergence 1.5. Fuzzy topological properties SPACES OF PROBABILITY MEASURES ON A SEPARABLE METRIZABLE SPACE 2.1. Construction and fundamental properties 2.2. Topological modification and α-level spaces 2.3. An analysis of some subspaces of M(X) and M*(X) 2.4. Compactness, Prohorov's theorem and separation SPACES OF RADON PROBABILITY MEASURES ON A LINEARLY ORDERED SPACE 3.1. Construction and fundamental properties 3.2. Topological modification 3.3. The case X = R and the fuzzy real line 3.4. The α-level spaces of the fuzzy real line 3.5. Compactness and separation in the fuzzy real line 3.6. The case X = {0,1} : a justification of the fundamentals of fuzzy sets SPACES OF (UPPER SEMICONTINUOUS) FUNCTIONS ON A UNIFORM SPACE 4.1. Construction and fundamental properties 4.2. Characterization of convergence in Φ_{g1}(X) 4.3. Characterization of the uniform modification and of the α-level uniformities 4.4. Compactness, precompactness and separation 4.5. A Lagrange-type interpolation theorem

REFERENCES 176