

CHAPTER 65

THESES OF THE PREVIOUS YEAR (A List of Theses Accepted for Awarded of the Degree of Ph.D. in 90th Annual Convocation-2013)

Doctoral Theses

METHEMATICS

704. DATT (Gopal)
Multiplication and Composition Induced Operators on Lorentz Spaces.
Supervisor : Prof. S. C. Arora
Th 19118

Contents

1. Introduction. 2. Multiplication operators : Lorentz spaces. 3. Multiplication operators : Lorentz-bochner spaces. 4. Composition operators : Lorentz spaces. 5. Weighted composition operators. 6. Open problems. References.

705. JAIN (Neeru) NEE NEERU SINGAL
Contributions to the Theory of Ordered and Fuzzy Topological Structures.
Supervisor : Dr. Shashi Prabha Arya
Th 19117

Contents

Basic definitions and preliminaries. 1. The locally finite sum theorem. 2. Paracompact ordered spaces. 3. Ordered connectedness and strong order semi-continuity. 4. Basic definitions and preliminaries. 5. Some forms of fuzzy continuity. 6. Fuzzy subweakly continuous functions. 7. Fuzzy weak continuity, fuzzy almost continuity and fuzzy pre-continuity. 8. Fuzzy subweakly α -continuous functions. 9. Some weaker forms of fuzzy weak continuity. 10. Fuzzy somewhat continuous functions. 11. Fuzzy ordered connectedness and fuzzy ordered α -continuous functions.

706. KAPOOR (Reena)
Various Techniques for Linearizing Binary Non-Linear Programming Problems.
Supervisor : Dr. S. R. Arora
Th 19116

Contents

1. Introduction. 2. Linearization and various complexity issues of 0-1 quadratic fractional programming problem. 3. Crisp linearization strategies for an unrevealed branch of general linear fractional programming problem and 0-1 multi-quadratic fractional programming problem. 4. A condensed linearization of 0-1 polynomial and multi-polynomial fractional programming problem after a simple reformulation. Appendix and references.