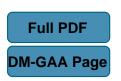
Discussiones Mathematicae General Algebra and Applications 26 (2006) 219–231 doi:10.7151/dmgaa.1113



ON UNIFORMLY STRONGLY PRIME Γ -SEMIRINGS (II)

TAPAN KUMAR DUTTA AND SUHRID DHARA

Department of Pure Mathematics, University of Calcutta 35, Ballygunge Circular Road, Kolkata-700019, India e-mail: duttatapankumar@yahoo.co.in e-mail: suhridd@yahoo.com

man. sum idd@yanoo.com

Abstract

The Uniformly strongly prime k-radical of a Γ -semiring is a special class which we study via its operator semiring.

Keywords: Γ-semiring, uniformly right strongly prime Γ-semiring, annihilators, essential ideal, essential extension, uniformly strongly prime k-radical, matrix Γ-semiring, special class, super t-system.

2000 Mathematics Subject Classification: 16Y60.

References

- [1] G.L. Booth and N.J. Groenwald, On Uniformly Strongly Prime Γ -rings, Bull. Austral Math. Soc. **37** (1988), 437–445.
- [2] T.K. Dutta and M.L. Das, On Uniformly Strongly Prime semirings (communicated).
- [3] T.K. Dutta and S. Dhara, On Uniformly Strongly Prime Γ -semirings, Southeast Asian Bull. of Mathematics **30** (2006), 32–39.
- [4] T.K. Dutta and S.K. Sardar, On The Operator Semirings of a Γ-semiring, Southeast Asian Bull. of Mathematics, Springer-Verleg, **26** (2002), 203–213.
- [5] T.K. Dutta and S.K. Sardar, On Matrix Γ -semirings, Far East J. Math. Soci. (FJMS) 7 (1) (2002), 17–31.
- [6] G.A.P. Heyman and C. Roos, Essential extensions in radical theory for rings
 J. Austral. Math. Soc. Ser A, 23 (1977), 340–347.

- [7] D.M. Olson, A Uniformly Strongly Prime Radicals J. Austral Math. Soc. Ser A 43 (1) (1987), 95–102.
- [8] D.M. Olson and S. Veldsman, Some remarks on Uniformly Strongly prime Radicals, Math. Japon **33** (3) (1988), 445–455.

Received 10 July 2006 Revised 13 September 2006