

ON UNIFORMLY STRONGLY PRIME Γ -SEMIRINGS (II)

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Abstract

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

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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.

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