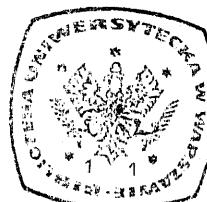


## References

- [1] J. J. Charatonik, *On decompositions of  $\lambda$ -dendroids*, Fund. Math. 67 (1970), pp. 15–30.
- [2] — *On decompositions of continua*, Fund. Math. 79 (1973), pp. 113–130.
- [3] R. W. Fitzgerald and P. M. Swingle, *Core decompositions of continua*, Fund. Math. 61 (1967), pp. 33–50.
- [4] Z. Frolík, *Concerning topological convergence of sets*, Czechoslovak Math. J. 10 (1960), pp. 168–180.
- [5] G. R. Gorga, Jr., *Monotone decompositions of irreducible Hausdorff continua*, Pacific J. Math. 36 (1971), pp. 647–658.
- [6] — *Concerning closed quasi-order on hereditarily unicoherent continua*, Fund. Math. 78 (1973), pp. 61–73.
- [7] K. Kuratowski, *Topology*, vol. II, New York-London-Warszawa 1968.
- [8] Z. M. Rakowski, *On decompositions of compact Hausdorff spaces*, Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys. 23 (1975), pp. 1089–1091.
- [9] — *Monotone decompositions of continua*, Fund. Math. 94 (1977), pp. 155–163.
- [10] E. J. Vought, Jr., *Monotone decompositions of Hausdorff continua*, Proc. Amer. Math. Soc. 56 (1976), p. 371.
- [11] — *Monotone decompositions into trees of Hausdorff continua irreducible about a finite subset*, Pacific J. Math. 54 (1974), pp. 253–261.
- [12] — *On decompositions of hereditarily unicoherent continua*, Fund. Math. (submitted).
- [13] L. E. Ward, Jr., *Mobs, trees and fixed points*, Proc. Amer. Math. Soc. 8 (1957), pp. 798–804.

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