

Wilder, B. E., and Eric L. McDowell. "Components and Quasicomponents of Subsets of Continua." *JP Journal of Geometry and Topology*, 1 (2001), pp. 163-171.

Abstract. In [Amer. Math. Soc. Colloq. Publ., Vol. 28, Amer. Math. Soc., Providence, R.I., 1942], Whyburn proves that a continuum, M , is hereditarily locally connected if and only if the components and the quasicomponents of any subset of M are identical. We consider continua for which various types of subsets have identical classes of quasicomponents and components, and examine some of the properties of such continua. In particular, we prove that a continuum, M , is locally connected if and only if the components and quasicomponents of any *open* subset of M are identical.