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Monotone Classes of Dendrites

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Abstract: Continua X and Y are monotone equivalent if there exist monotone onto maps $f : X \longrightarrow Y$ and $g : Y \longrightarrow X$. A continuum X is isolated with respect to monotone maps if every continuum that is monotone equivalent to X must also be homeomorphic to X. In this paper we show that a dendrite X is isolated with respect to monotone maps if and only if the set of ramification points of X is finite. In this way we fully characterize the classes of dendrites that are monotone isolated.