New Properties of Professor Jones' Set Function $\mathcal{K}$

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A *continuum* is a compact, connected Hausdorff space.

Let X be a continuum. The *Set Function* K is defined as follows: if A is a subset of X, then

$$\mathcal{K}(A) = \bigcap\{W \mid W \text{ is a subcontinuum of } X \text{such that } A \subset Int(W)\}.$$

Professor F. Burton Jones defined the set function $\mathcal{K}$ to study aposyndesis on metric continua. The purpose of the talk is to present new properties of this function.