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L_k -prime closure operators and L_k -prime interior operators on L -partially ordered sets.

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Summary: This paper introduces the concept of L -partially ordered sets on complete residual lattices, and gives the concepts of L_k -prime closure operators and L_k -prime interior operators and characterizations on them. Then, it gives the generalization. The concepts of n multiple L_k -prime closure operators and b multiple L_k -prime interior operators and characterization on them are obtained.

MSC:

[06A15](#) Galois correspondences, closure operators (in relation to ordered sets)

[06A06](#) Partial orders, general

[06A11](#) Algebraic aspects of posets

Keywords:

L -partially ordered sets; L_k -prime closure operators; L_k -prime interior operators