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Summary.

THE DECOMPOSITIONS OF ELEMENTS OF THE LATTICE WITH MINIMAL CONDITION

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In the preceding paper a symmetrical binar relation ϱ between the elements of a given lattice with minimal condition is introduced. The join $a_1 \vee a_2 \vee \dots \vee a_n$ ($n > 1$) is called ϱ -decomposition, if $a_i \varrho (a_{k_1} \vee a_{k_2} \vee \dots \vee a_{k_j})$ holds for every $i = 1, \dots, n$ and for every choice of the various k_1, \dots, k_j from $\{1, \dots, i-1, i+1, \dots, n\}$.

We obtain the proper decompositions for $[x \varrho y \Leftrightarrow x \text{ non} \geq y]$, the direct decompositions for $[x \varrho y \Leftrightarrow x \text{ non} \leq y, x \wedge y = 0]$, the strong decompositions for $[x \varrho y \Leftrightarrow x \text{ non} \geq y, (x \vee p) \wedge (y \vee p) = p \text{ for every } p \text{ of a given lattice}]$.

In the paper some general properties of the ϱ -decompositions and some connections between the special types of ϱ -decompositions are investigated.