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k_1 -

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k_2 -

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k_3 -

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A_1, A_2, \dots, A_l

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S_1, \dots, S_l ,

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A_1, A_2, \dots, A_l

(k_1, k_2, \dots, k_s) [3].

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A_1, A_2, \dots, A_l

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$$f_p(k_1, k_2, k_3)$$

[2].

$$(k_1; k_2; k_3)$$

$$A'(k_1', k_2', k_3') \quad A''(k_1'', k_2'', k_3''),$$

1-

$$k_2 -$$

$$k_2$$

$$k_2$$

$$k_2$$

$$k_2''$$

$$k_2',$$

$$k_1.$$

$$(k_1, k_3)$$

$$k_3,$$

$$\begin{cases} \Delta k_1 = k_1' - k_1''; \\ \Delta k_3 = k_3' - k_3''. \end{cases} \quad (2)$$

«+».

2-

$$(k_1)$$

$$\Delta k_1 \quad \Delta k_3 \quad \text{«} \quad \text{»}$$

$$k_1.$$

$$(k_2)$$

$$k_2''$$

$$k_2.$$

$$k_2'.$$

$$(k_2)$$

3-

$$(k_3)$$

$$A''(k_1'', k_2'', k_3'')$$

$$(k_1') \quad A'(k_1', k_2', k_3')$$

$$k_3.$$

$$A', \quad A'',$$

:

$$k_2 \quad k_1.$$

$$\begin{cases} \Delta k_1 < \Delta k_1'; \\ \Delta k_3 < \Delta k_3'; \end{cases} \quad (3)$$

4-

$$\Delta k_1$$

$$\Delta k_3$$

$$\text{«} \quad \text{»}$$

$$\Delta k_1 \quad \Delta k_3$$

$$k_2.$$

$$(k_2).$$

$$\begin{cases} \Delta k_1 > \Delta k_1'; \\ \Delta k_3 > \Delta k_3'; \end{cases} \quad (4)$$

$$(k_2).$$

$$k_p,$$

$$f_p(k_1, k_2, k_3)$$

$$k_1, \quad k_2 \quad k_3,$$

$$\begin{cases} \Delta k_1 < \Delta k_1'; \\ \Delta k_3 > \Delta k_3'; \end{cases} \quad (5)$$

:

$$k_p = f_p(k_1, k_2, k_3) \rightarrow \min_{S \in M}. \quad (1)$$

$$\begin{cases} \Delta k_1 > \Delta k_1' & ; \\ \Delta k_3 < \Delta k_3' & ; \end{cases} \quad (6) \quad A''.$$

$$k_1 \quad A'' \quad (5)$$

k_3 .

A' .

$\Delta k_1 \quad \Delta k_3$

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$$\Delta k_2 = k_2' - k_2''$$

k_2 ,

k_1'', k_2'', k_3'' .

Δk_i .

$$\begin{cases} \Delta k_1 = f_1(\Delta k_2, k_1'', k_2'', k_3''), \\ \Delta k_3 = f_3(\Delta k_2, k_1'', k_2'', k_3''), \end{cases} \quad (7)$$

(. 1).

$$\Delta k_2. \quad (7)$$

k_1'', k_2'', k_3''

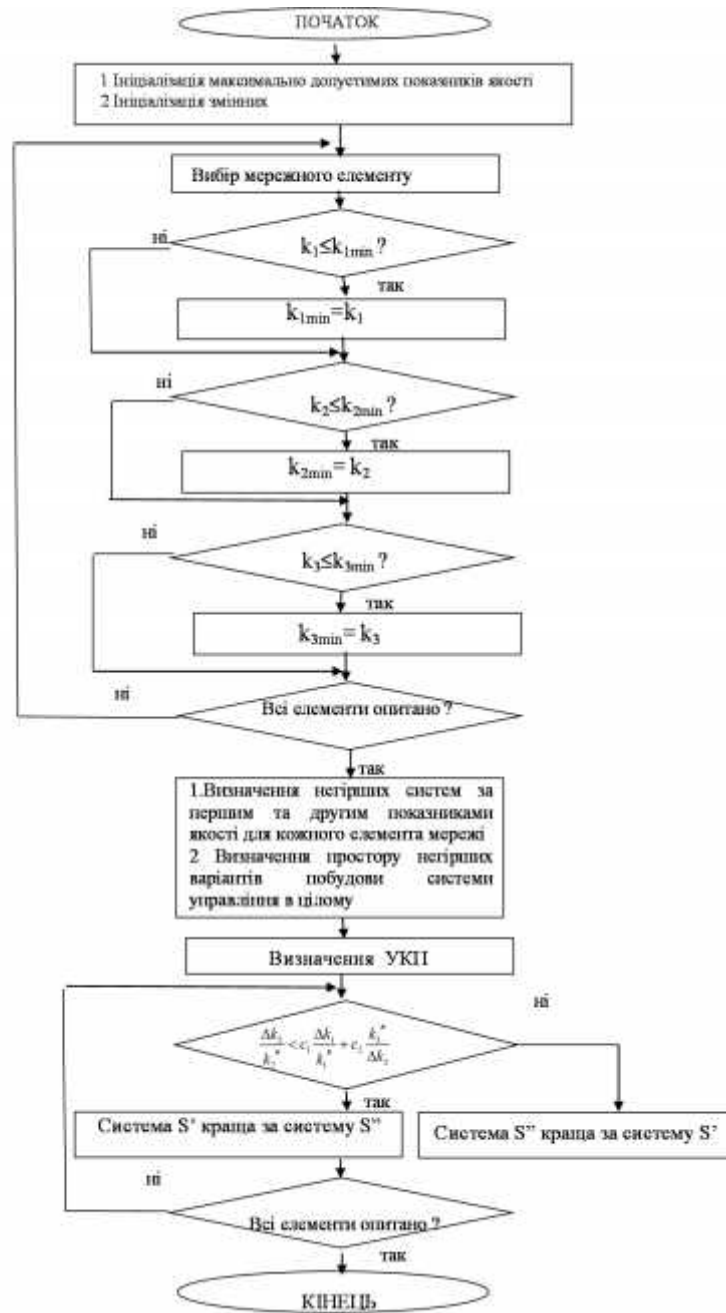
$A'(k_1', k_2', k_3') \quad A''(k_1'', k_2'', k_3'')$

$A'' \quad A'$.

() ()

$$\frac{\Delta k_2}{k_2''} < c_1 \frac{\Delta k_1}{k_1''} + c_2 \frac{k_3''}{\Delta k_3} \quad (8)$$

c_1, c_2 , $c_1 + c_2 = 1$.



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SYNTHESIS OF THE OPTIMUM TELECOMMUNICATION NETWORK BEHIND THREE INDICATORS OF QUALITY

V.V. Zhebka

Quality indicators which need consideration for today are established. Synthesis of an optimum telecommunication network by unconditional criterion of advantage is considered and is allocated its main stages. It is entered conditional criteria of advantage. The algorithm of definition of an optimum telecommunication network behind three indicators is developed.

Keywords: telecommunication network, quality indicators, synthesis, unconditional criterion of advantage, conditional criterion of advantage.