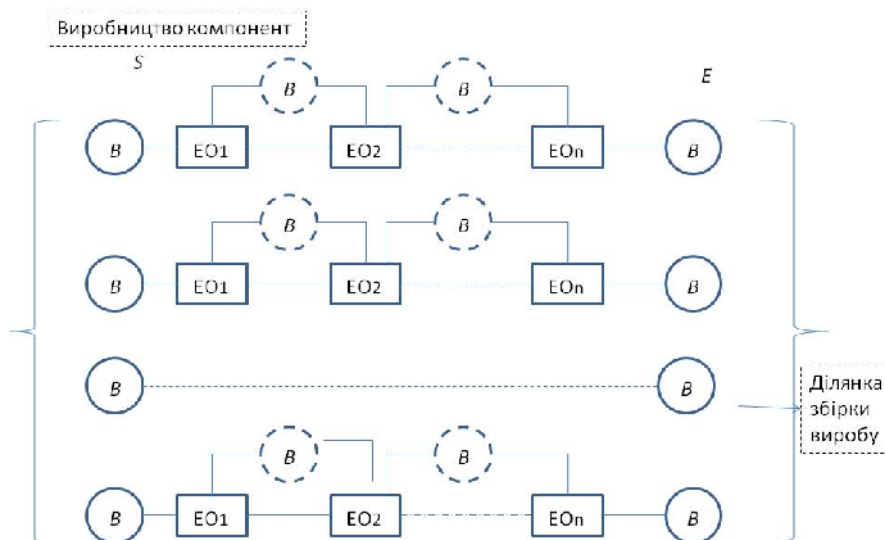


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During the writing of this work was the analysis of production schedules, analysis of non-productive time for manufacturing site, based on the developed mathematical model for solving the problem definition unproductive time in different production situations.

Keywords: analysis, mathematical model, non-productive time.



.1.

$$X = \begin{pmatrix} a_1 \\ \vdots \\ a_i \\ \vdots \\ a_M \end{pmatrix}; A = \{a_i; i = \overline{1, M}\} \quad \{a_{ik}; i = \overline{1, M}, k = \overline{1, K}\}$$

$$t_{ik}^n; \quad a_i; \tau_{ik}^n, n = \overline{1, N}$$

$$\sum_{n=1}^{N_K} t_{ik}^n + \sum_{n=2}^{N_K} \tau_{ik}^n = t_i^1 \tag{1}$$

$$\sum_{n=1}^{N_K} t_{ik}^n + \sum_{n=2}^{N_K} \tau_{ik}^n \leq t_i^1 \tag{2}$$

$$t = j\Delta t, j = \overline{1, l} \quad B_{ik}^S(t), \quad B_{ik}^E(t)$$

$$P_{ik}(j+1) \quad B_{ik}^S(j+1) = B_{ik}^S(j) + P_{ik}(j+1), \tag{3}$$

$$B_{ik}^E(j+1) = B_{ik}^E(j) + \frac{\Delta t}{t_{ik}^n} \tag{4}$$

$$X_i(j+1) = X_i(j) + \frac{\Delta t}{t_i} \tag{5}$$

$$K_P = 1 - \frac{\sum_1^n a_i}{\sum_1^n \Pi}, \tag{6}$$

i);
 N ()

$$\dots = \dots + \dots + \dots \quad (11)$$

$$\dots = \dots + \dots \quad (12)$$

$$\dots = \dots + \dots + \dots + \dots \quad (13)$$

$$\dots = (\dots + \dots) * k * k * k, \quad (14)$$

$k - D$
 $k - D = D, D = D/D$; (1,15-1,2).

[2; 3; 4],

[2].

$$T_{\text{ПР}}^k \quad ; \quad T_{\text{ПР}}^L = T_{\text{ПР}}^k \quad (18)$$

$$X_{i\text{факт}}^L = \frac{X_{i\text{пл}}^L \cdot (\Phi - T_{\text{ПР}}^k)}{\Phi} \quad (19)$$

$$P_{\text{факт}} = \frac{X_{i\text{факт}}^L}{X_{i\text{пл}}^L} \cdot 100\% \quad (20)$$

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