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A problem of sequence of components manufacturing optimization with presence of additional limitations is examining. Developed an economical- mathematical model of object and realized with the help of a VBA language.

Keywords: calendar planning, optimal sequence, manufacturing duration, technological route, economical-mathematical model, optimality criterion.

[3]. [4]

VBA.

[1]

[2].

[5].

n

$q_{ij_1} = q_{ij_2}$

$i = \overline{1, m}, j_1, j_2 = \overline{1, n}$

$A = (a_1, a_2, a_3, \dots, a_n)$
 $(1, 2, 3, \dots, n)$

$a_j = l(j)$
 $L(A) = (l_{ij})$
 $R(A) = (r_{ij})$

$l_{ij} -$
 $r_{ij} -$

A

$i-$ a_j
 A $j-$

A

$T' = (t'_{ij})$
 $T = (t_{ij})$

$A,$
 $T', L(A) \quad R(A)$

$L(A)$

1) $Q = (q_{ij}),$
 $m \quad t'_{ij} = t_{i\lambda(j)}$

n $j-$ $q_{ij} -$

$R(A):$

2) $T = (t_{ij})$ m n
 $t_{ij} -$
 $j-$ $i-$

$j-$ $i-$
 $q_{ij} = 0 \quad t_{ij} = 0.$

$r_{ij} = l_{ij} + t'_{ij}, i = \overline{1, m}, j = \overline{1, n}$
 $l_{11} = 0$
 $l_{i1} = r_{(i-1)1}, i = \overline{2, m}$
 $l_{1j} = r_{1(j-1)}, j = \overline{2, n}$
 $l_{ij} = \min\{r_{i(j-1)}, r_{i(j-1)}\}$ (1)

$R(A)$

1) $\max_i r_{in} \rightarrow \min;$

2) $\sum_{i=1}^m r_{in} - \sum_{i=1}^m \sum_{j=1}^n t_{ij} \rightarrow \min;$



.1.



.2.

3)

$$\sum_{j=1}^n \max_i r_{ij} \rightarrow \min.$$

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» VBA.
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