

* . . . , . . . * , ** . . . , . . . , . . . * . . .

* « »

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21

[1-4].

[5].

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[6].

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3 :

: 1) , 2) , , 4)

1.

« »

2.

3.

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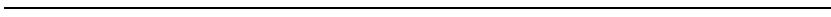
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—

[3].



$(i, d_i, \tau_i), i \in N -$

- « 1. »
- 2.
- N

$c_{ij}, j \in M = \{1, 2, \dots, m\} -$

$A^l, l \in K = \{1, 2, \dots, k\} -$

$Q \supseteq N$

$$\begin{aligned}
a_Q &= (a_{Q1}, a_{Q2}, \dots, a_{Qk}), \\
a_{Ql} &= \sum_{i \in Q} a_{il}, l \in K \\
C_Q &= (c_{Q1}, c_{Q2}, \dots, c_{Qm}), \\
C_{Qj} &= \sum_{i \in Q} c_{ij}, j \in M.
\end{aligned}$$

$$R = (R_1, R_2, \dots, R_m).$$

$$Q_j \leq R_j, j \in M. \tag{1}$$

$$1 = (1_1, 1_2, \dots, 1_m)$$

$$a_1 = (a_{11}, a_{12}, \dots, a_{1k}).$$

$$F = \sum_{t=1}^T \sum_{v=1}^V C_{vt} \cdot z_{vt} \rightarrow \max, \tag{2}$$

$$C_{vt}$$

1.
$$P \leq \sum_{v=1}^V P_v, \quad (3)$$

2.
$$D \leq \sum_{v=1}^V D_v, \quad (4)$$

3.
$$I \geq \sum_{v=1}^V I_v, \quad (5)$$

1. 2004. – 472 .
2. « . . . », 2007. – 240 .
3. , 2005. – 206 .
4. , 2007. – 270 .
5. // -
6. - 2010. – 2(43). – 9-11.
7. // . - 2008. – 50. – 275-278. ROI: . / , 2005. – 460 .