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In this article the considered questions of estimation of quality of control of ecological object. It is suggested to use in quality a criterion a having a special purpose function which runs into the indexes of the controlled parameters. It helps to attain the best economic indicators, promote reliability of the use of the natural systems. Ecological monitoring, that is carried out with the use of these criteria has the row of advantages.

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 ,
 .
 q,
 .
 q

$$q = q(x_1, x_2, \dots, x_m) \quad (1)$$

x_1, x_2, \dots, x_m .
 .
 ()
 .
 (1). ()
 $x_i, i = 1, 2, \dots, m$

$$q = q(x_1(t), x_2(t), \dots, x_m(t)) = q(t). \quad (2)$$

(2) () \bar{q} -

$$\bar{q} = Mq(t) \quad (3)$$

, \bar{q} .
 (2) (3) ,

$x_i(t), i = 1, 2, \dots, m.$

q_0

, . . .

\bar{q}

q_0

$$\overline{\Delta q} = \bar{q} - q_0 \tag{4}$$

$\overline{\Delta q}$,

\bar{q} ,

$x_i(t), i = 1, 2, \dots, m.$

$x(t).$

$x(t)$

[1].

x

$[x,]$

$x,$

()

$: q(x) = q_0.$

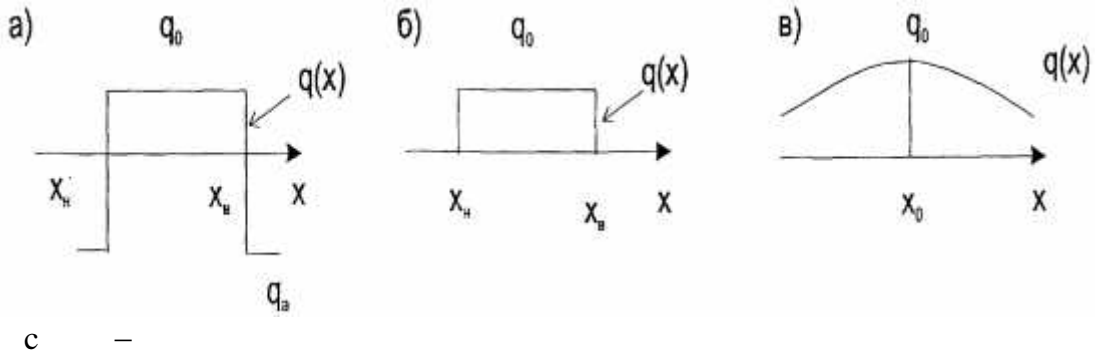
q

x

q_0

$x \in [x,]$
 $x \notin [x,]$ (. ,).
 ()

[2, 3].



$[x,]$

[4].

$$q = \begin{cases} q_0, & x \in [x,] \\ -q, & x \notin [x,] \end{cases} \quad (5)$$

$x < x, > x$

(),

(5)

$$q = \begin{cases} q_0, & x \in [x_0, x_1] \\ 0, & x \notin [x_0, x_1] \end{cases} \quad (6)$$

(6). 1()
q()

$$q(x) = q_0 - k(x - x_0)^2. \quad (7)$$

x_0 x $(x - x_0)^2$.

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