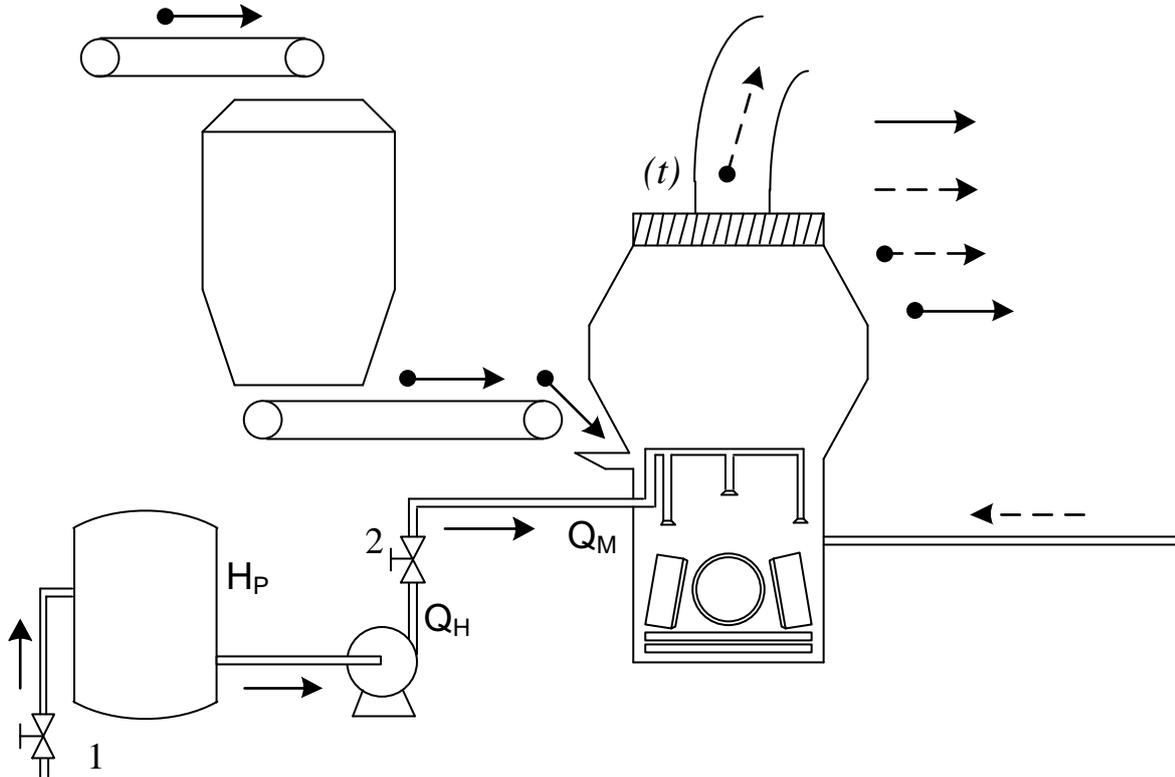


ОСОБЕННОСТИ КОМПЛЕКСА ВПРЫСКА ВОДЫ В УГОЛЬНУЮ РОЛИКОВУЮ МЕЛЬНИЦУ КАК ОБЪЕКТА АВТОМАТИЧЕСКОГО УПРАВЛЕНИЯ

Мейта Д.А., студ.; Федюн Р.В., доц., к.т.н., доц.; Попов В.А., доц., к.т.н., доц.

« 8 » - 1896 . 6
(150 -400) (185) .
-400 -600.
« »
« »
()
()
2/ (.1) / 2.



$$\begin{aligned} & \left(\frac{dQ(t)}{dt} + \frac{Q(t)}{F} \right) = H(t) - Q_H(t) \quad (1) \\ & \left(\frac{dQ(t)}{dt} + \frac{Q(t)}{F} \right) = H(t) - Q_H(t) \quad (1) \end{aligned}$$

$H(t)$,

$$1 \quad (1)$$

(t)

$$(1)$$

$$(1)$$

$$Q_H(t)$$

$$Q(t)$$

[1]:

$$\frac{dQ(t)}{dt} = k(Q(t) - Q_H(t)),$$

$$\frac{dQ(t)}{dt} = k(Q(t) - Q_H(t)),$$

$$k = \frac{1}{F}$$

$$F = \dots$$

$$[2,3]: \frac{Q_H(t)}{H(t)} = \dots$$

$$\frac{dQ(t)}{dt} = \dots; \omega = \dots; L = \dots; \alpha = \dots$$

Q_H ,

$$[3,4].$$

[3,4]:

$$= \dots + \dots - \dots^2, \quad (1)$$

$Q -$
, , -
)

() ;

(

[3,4]:

$$= +\Delta = +\alpha Q^2, \quad (2)$$

-

(

-

);

$\Delta -$

;

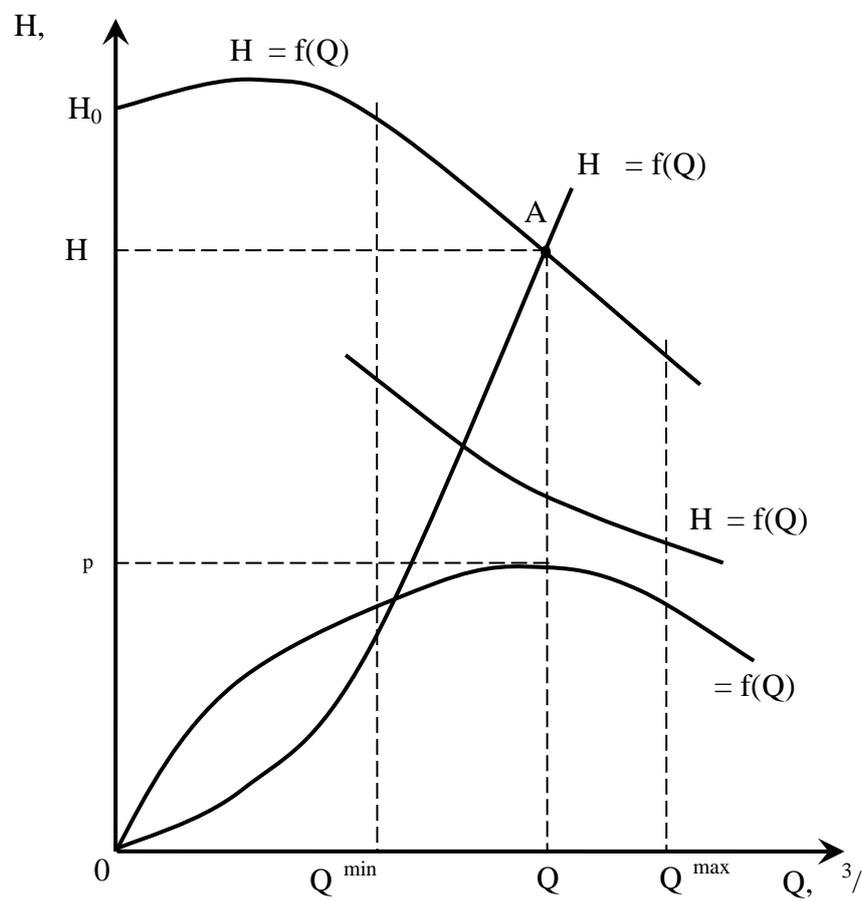
$\alpha -$

.

(1)

(2).

() (.2)



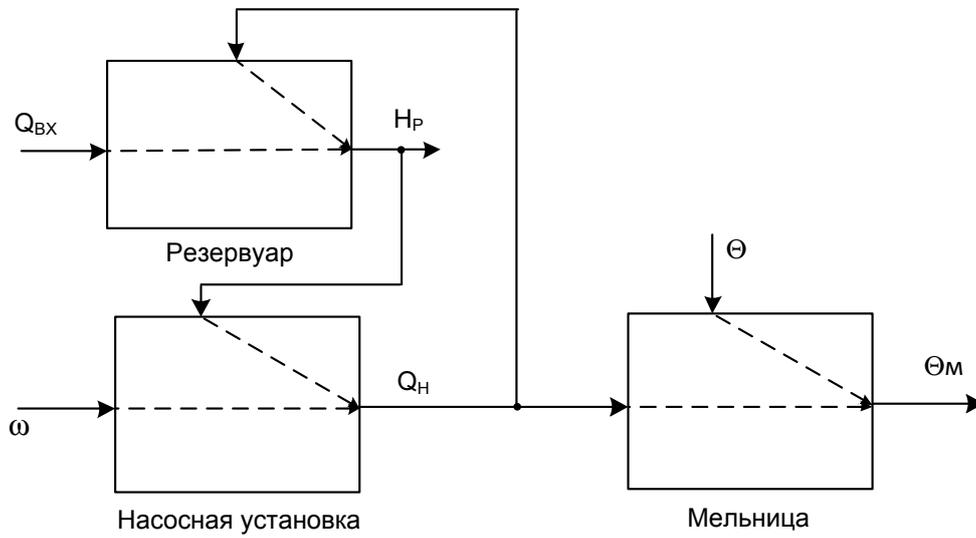
2 -

$$H \leq H .$$

$H .$

$$- Q_P^{\min} < Q_P < Q_P^{\max} .$$

(3)



3 -

(.3):

- ; Q_H ; θ .

(.3):

- Q ;
- ;
- ω ;
- Q_H .

(.3):

- Q_H () ;
- ;
-) ;
- θ (

(.4)

- P ;
- Q_H ;
- θ .

(.4)

P

Q ,

Q_H .

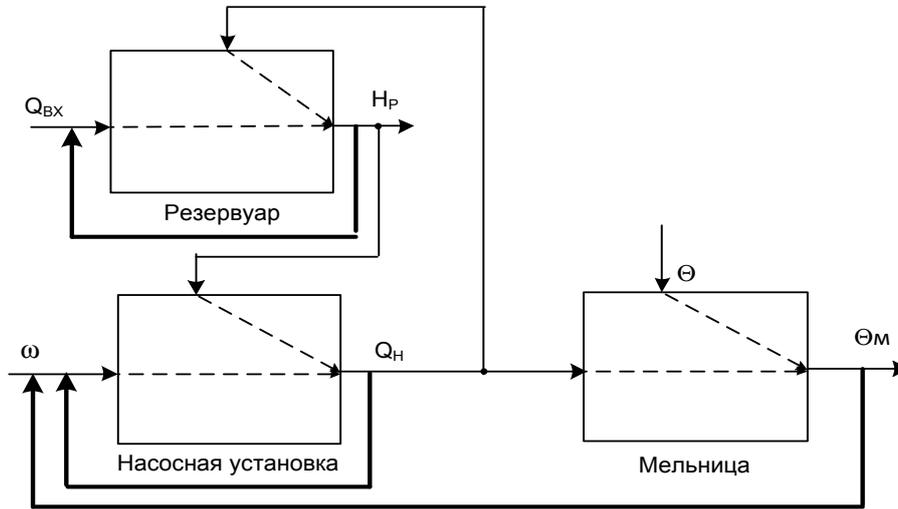
(.4).

Q_H

(
 θ

Q_H)

θ (.4).



1. // VII /
. 24-25 2017 . - : , 2017. - .286 – 290. :
2. , , - :
, 1984 - 416 .
3. , : / ,
. - 2- - : , 1986. - 320 .
4. , / , //
. - 106. - :
, 2006.- . 26 – 33.