

$d_{\Delta x}$,

$$d_x = 2k\sigma_x = 2\alpha A, \quad (2)$$

$\sigma_{\Delta x}$ -

; k -

$$k = 3$$

0,997

(« »); α -

, . . .; A -

(

-)).

d_x

(1):

$$d_x = b - a. \quad (3)$$

$$d_x \gg d_{\Delta x}.$$

d_x

$d_{\Delta x}$

[1]

(1)

:

$$(2x_0 - \gamma_{\text{opt}}) \leq x(t) \leq \gamma_{\text{opt}}, \quad (4)$$

x_0 -

; $(2x_0 - \gamma_{\text{opt}})$

γ_{opt} -

()

$$= (1 - q) F + q F = \min, \quad (5)$$

q -

; -

F -

; -

()

; F -

γ_{opt}

$f[x(t)]$

$$F = 2 \int_{\gamma_{\text{opt}}}^b f[x(t)] dx. \quad (6)$$

$$F = 2 \int_0^{\gamma_{opt}} f[x(t)] dx, \quad (7)$$

$f[x(t)] =$

(5)

k

[2]

$$(1-q) F + q F = \min \max, \quad 0 \leq q \leq 1. \quad (8)$$

(8)

γ_{opt}

« »

(4)

(8).

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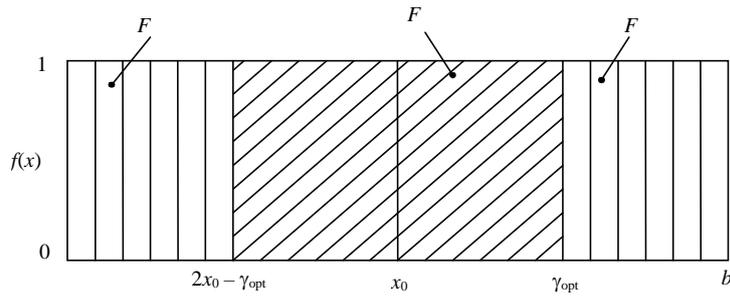
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[3].

γ [4].

(. 1)

$$F = 2 \int_{\gamma_{\text{opt}}}^b f(x) dx = \frac{2(b - \gamma_{\text{opt}})}{b - a}. \quad (9)$$



. I.

$$F = 2 \int_{x_0}^{\gamma_{\text{opt}}} f(x) dx = \frac{2(\gamma_{\text{opt}} - x_0)}{b - a}. \quad (10)$$

$$\frac{1}{q} = \frac{2}{b - a} [(\gamma - x_0) - (b - \gamma)] = 0. \quad (11)$$

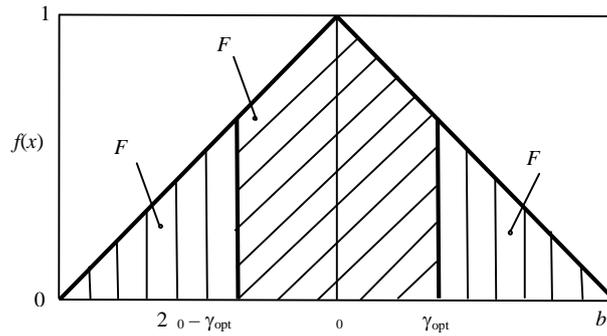
(11)

$$\gamma_{\text{opt}} = \frac{x_0 + b}{2}. \quad (12)$$

(.2) :

$$F = \left(\frac{b - \gamma_{\text{opt}}}{b - x_0} \right)^2; \quad (13)$$

$$F = 1 - \left(\frac{b - \gamma_{\text{opt}}}{b - x_0} \right)^2. \quad (14)$$



. 2.

$$\frac{C}{q} = C - \left(\frac{b - \gamma_{\text{opt}}}{b - x_0} \right)^2 (C + \dots) = 0. \quad (15)$$

(15)

$$\gamma_{\text{opt}} = x_0 + \left(1 - \sqrt{\frac{\dots}{\dots}} \right) (b - x_0). \quad (16)$$

(. 3)

:

$$F = \frac{2}{\sqrt{2\pi}} \int_u^b \exp\left(-\frac{1}{2}x^2\right) dx \quad (17)$$

$$F = \frac{2}{\sqrt{2\pi}} \int_0^u \exp\left(-\frac{1}{2}x^2\right) dx, \quad (18)$$

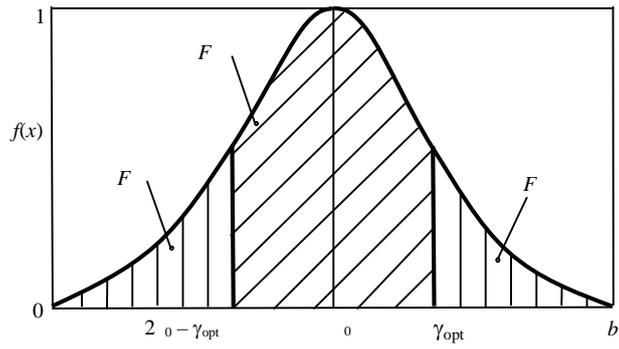
u

γ_{opt}

$$\sigma_{\Delta} = \dots$$

$$0,$$

$$u = \frac{\gamma_{\text{opt}} - x_0}{\sigma_x}. \quad (19)$$



. 3.

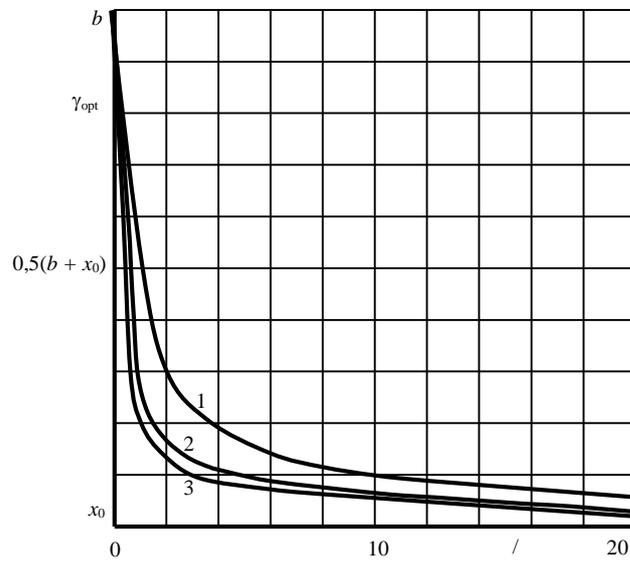
(17)...(19),

$$d_{\Delta x}, \quad 0,997,$$

$$\gamma_0 = x_0 + 0,227(b - x_0). \quad (20)$$

. 4

$$(2x_0 - \gamma_{opt}, \gamma_{opt}).$$



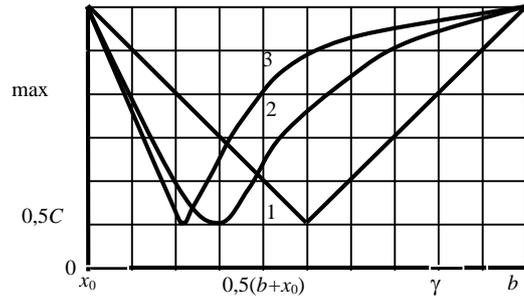
. 4.

(2)

(3)

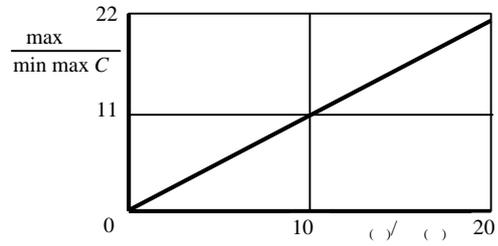
(1),

. 5



. 5. (2) (3) () (1),
 $\gamma = 1$

. 6.



. 6.

1.

2.

1.

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4.

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20.05.2004