

تطوير الأداء الحركي لآلات الدفع الخطية الخطوية
المعتمدة على محرك ومحول خطي

الملخص

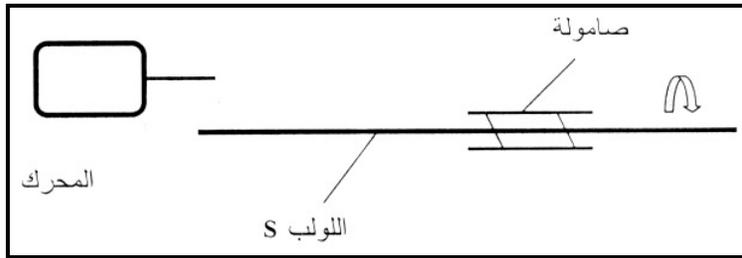
()

(0,1)

" - 1
 . - 2
 . - 3
 . - 4
 . - 5
 . - 6
 -
 -
 .
 .(2 - 1)

- 1

(1)
 (+)
 () . -
 .(3)



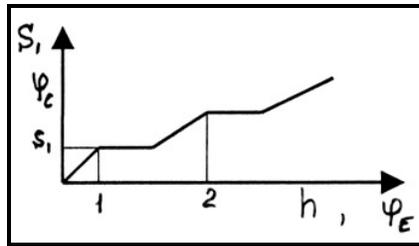
.1

()

: - 2

: " " - 1- 2

(2)



.2

(h)

(S)

(S1)

(2)

(2)



$$S = p [D/d - 1] \quad (1)$$

S
d D

(t) (S1)

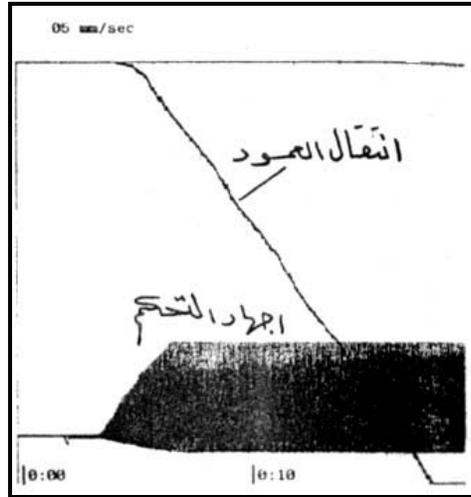
$$S_{max} = S1 * f * t \quad (2)$$

: 2 - 2

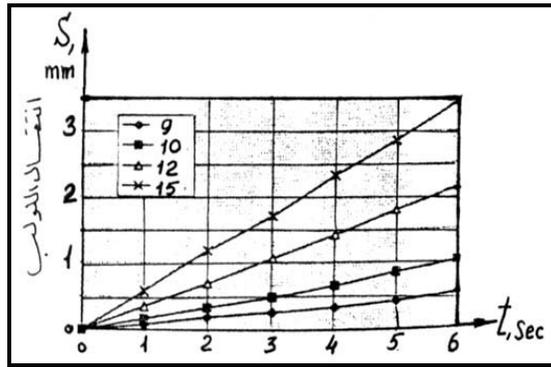
(4)

(3) ()

(4)



Hz15 V/100 .3



.4

(5)

.(3)

:

- 3

:

- 1- 3

:

(Fl)

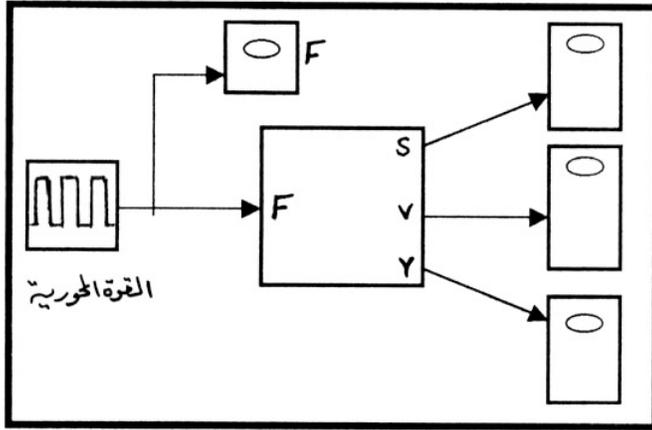
$$f = Ft + Fr + Fl$$

(Fr)

(Ft)

(3)

(5)



.5

-s :

-v

-Y

:

- 2 - 3

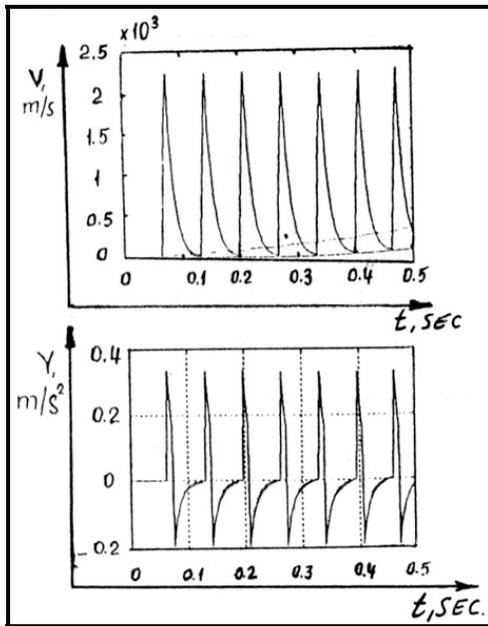
(6) ()

(7)

.(6)

(7)

(0,1)



.7 .6

.10 8

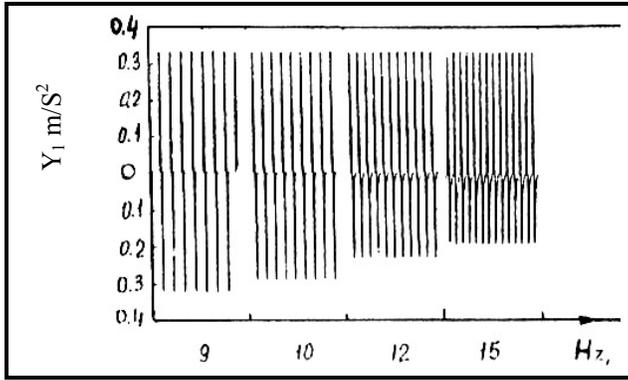
(8)

9)

(Hz 9)

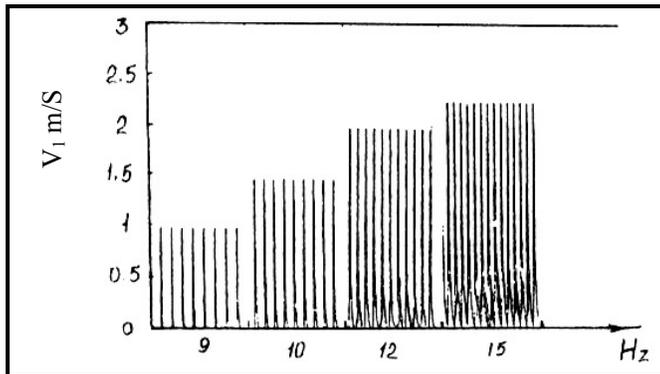
(

(Hz 15)

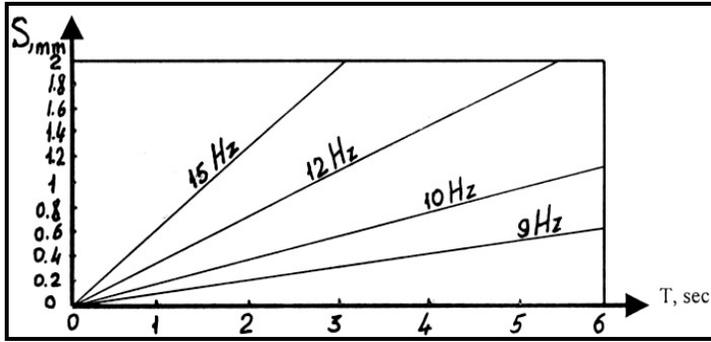


(Hz 15 12 10 9) .8

(10) Hz 15 9



.9



.10

$F < 9\text{ Hz}$

(10)

F1

$F1/F = 0.1$

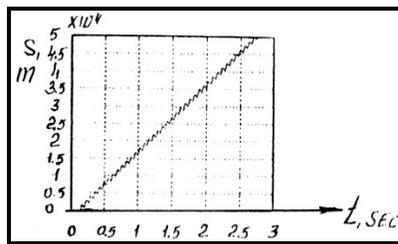
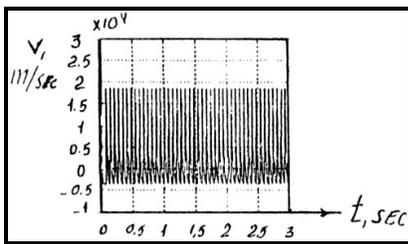
(11)

)

(11

(11)

0.01



$F1 / F = 0,1$

.11

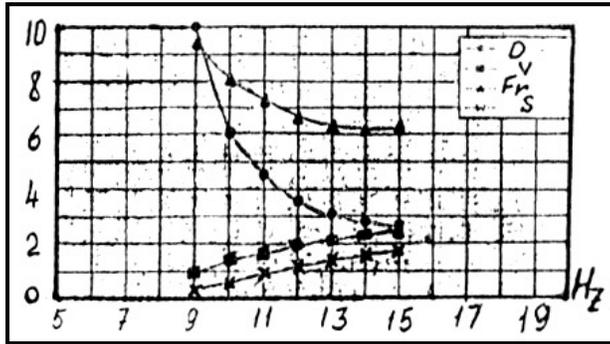
: - 4

(12)

S V Fr D

Hz 9

.Hz 14



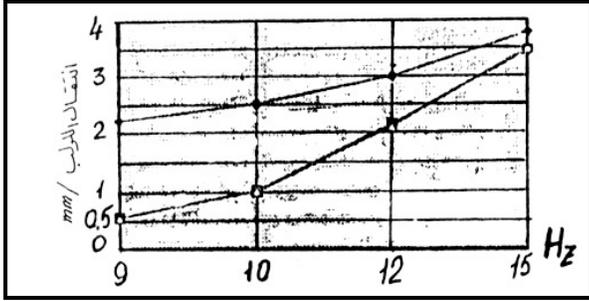
(3) V Fr .12

(13)

(13)

(t=6Sec)

)
Hz15 (



.13

(6)

: - 5

0.1

0.1

المراجع

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