

622.235

. . . , . . . (« »)

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Experimental results on power streams interaction when blasting of TEN charges on different distances between them are specified. The presence of additional blasting area is confirmed and its parameters are got. The change of particle-size of model material depending on distance between charges is investigated.

Keywords: power streams, stress concentration, model, area of destruction, explosion, blast-hole charge, grain size, mean size of piece.

[1–3], () , [4].

1,26 [3]. 5

[5]

400×230×60

– 5 ; – 20 ; – 30
 50, 60, 70, 80, 90 100
 [6]
 $n = 5$ $\alpha = 0,9$

. 1.

1.

1	50	163	114	205	347,6	5,76
2	60	174	113	172	374,7	6,07
3	70	183	114	141	405,4	6,33
4	80	192	112	132	422,9	6,52
5	90	205	111	82	438,1	6,62
6	100	214	108	79	446,1	6,67

. 1,

50

,

,

114

205

1,8

[1, 2],

60

(. 1,).

113

- 172

1,5

(. . 1).

50

60

70

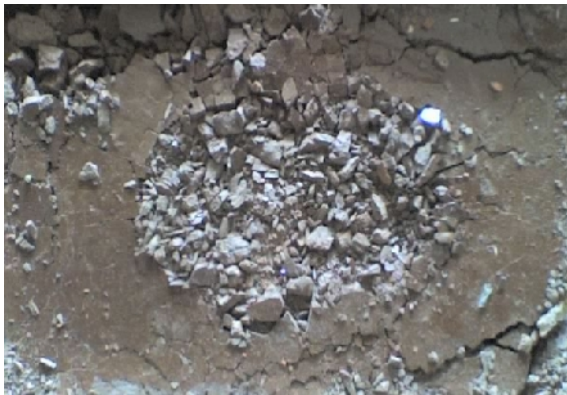
(. . 1,)

1,24

. 1,

80

1,18



. 1.

: -50 ; -60 ; -70 ; -80 ; -90 ; -100

90

(. 1,).

82 (. . 1).

1,35

100

, ,

(.1,).

78 .

. 1 , .

, ,

70 80

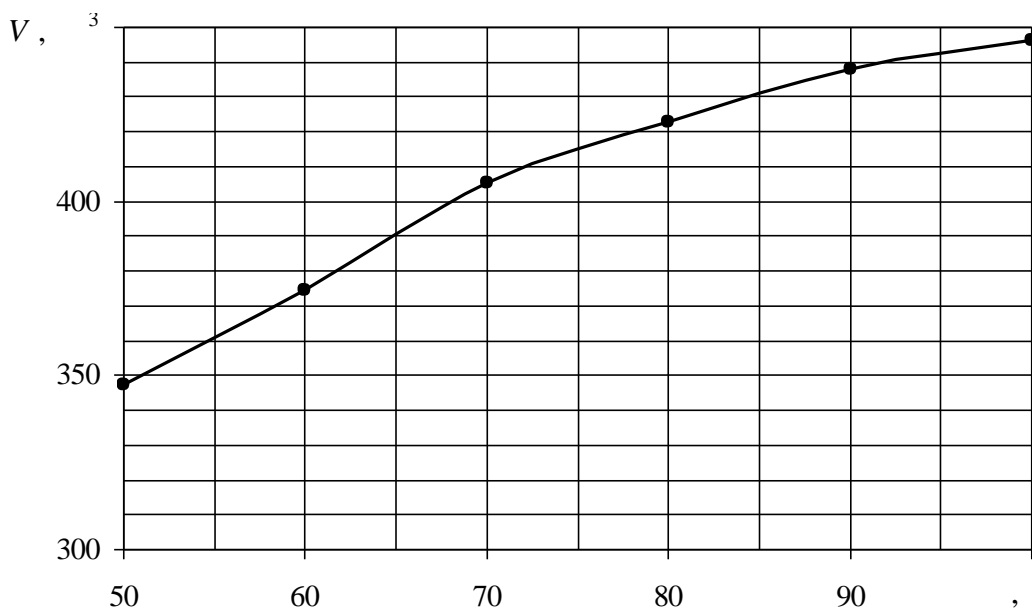
. 2 , V

[1, 2], 5 10 ,

(50) 1,28 100

1,17 ,

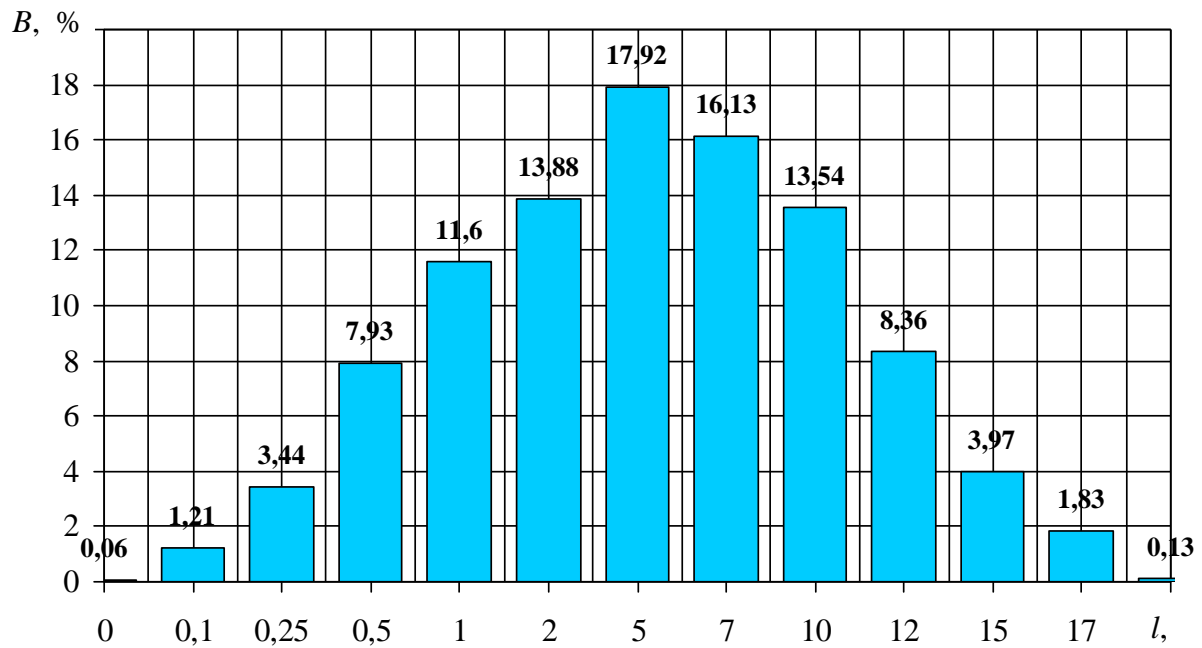
10 %.



. 2.

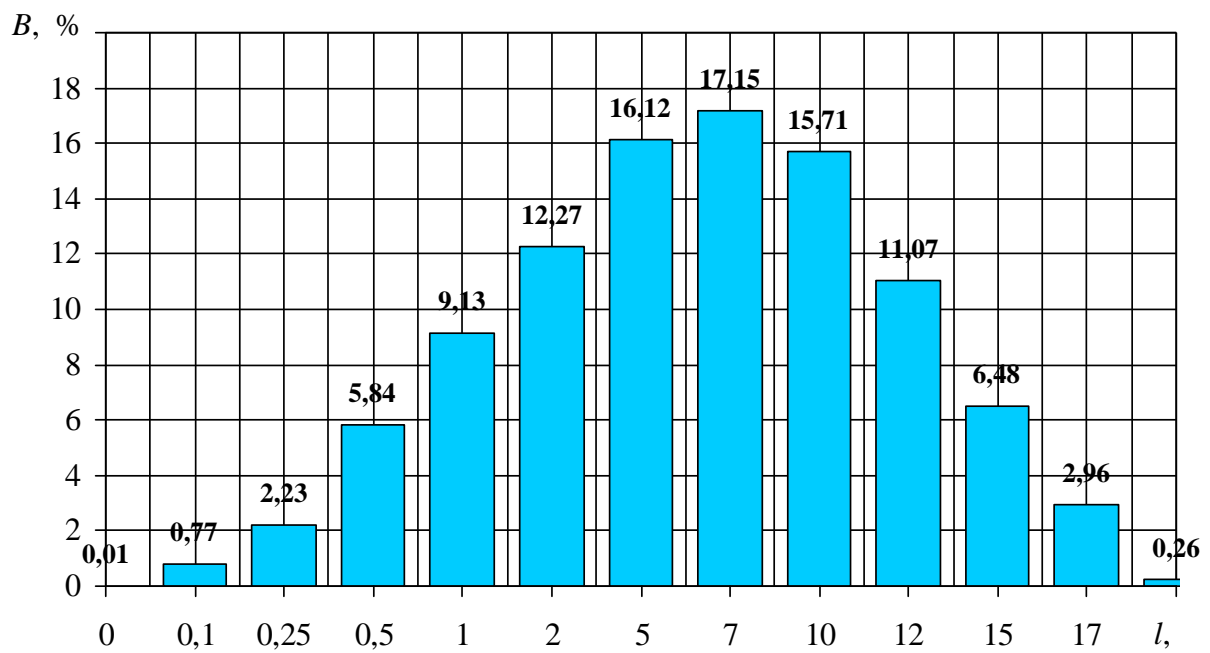
. 3 4

50 100



. 3.

50



. 4.

100

,

,

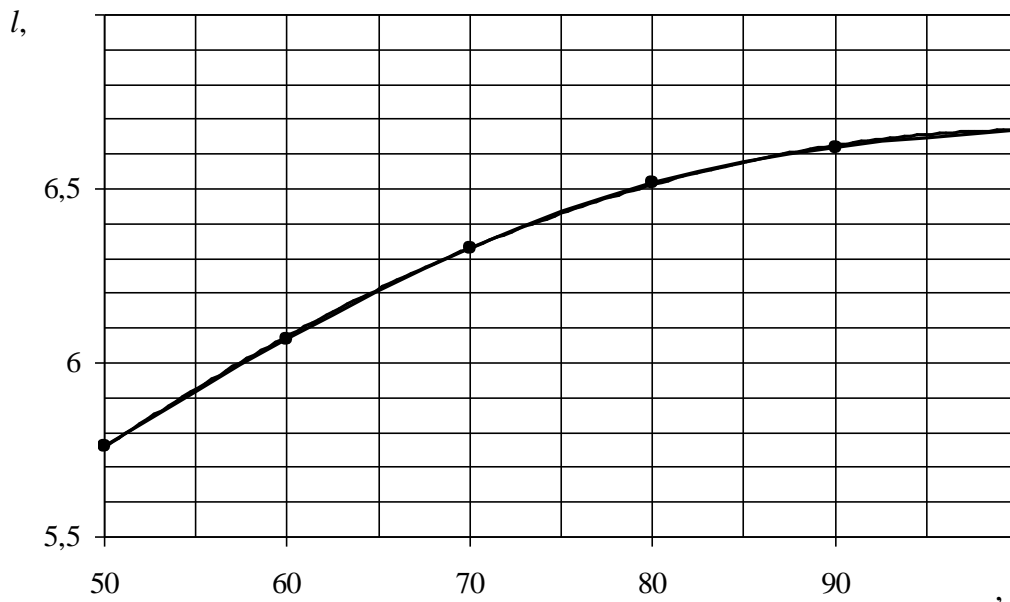
. 2,
50-100 .
2.

-	,												
	0-0,1	0,1-0,25	0,25-0,5	0,5-1	1-2	2-5	5-7	7-10	10-12	12-15	15-17	17-20	>20
50	0,06	1,21	3,44	7,93	11,6	13,88	17,92	16,13	13,54	8,36	3,97	1,83	0,13
60	0,05	1,05	3,28	7,13	10,08	13,01	18,73	16,86	14,21	8,85	4,37	2,16	0,22
70	0,02	0,91	2,26	6,51	9,71	12,51	18,01	18,34	14,68	9,42	5,04	2,33	0,26
80	0,02	0,77	2,06	6,27	9,52	12,14	17,48	18,57	15,31	10,01	5,3	2,3	0,25
90	0,01	0,81	2,11	5,99	9,41	12,42	16,85	17,62	15,18	10,18	6,23	2,86	0,33
100	0,01	0,77	2,23	5,84	9,13	12,27	16,12	17,15	15,71	11,07	6,48	2,96	0,26

. 5

a , l :

$$l = 3,11 - 0,0003a^2 + 0,07a.$$



. 5.

l

a

1.

2.

60 – 1,5 ; 70 – 1,24 ; 80 – 1,18 ; 90 – 1,00 ; 100 – 1,8 ;

3.

4.

100 (50) 1,28 , 10 5 – 1,17 . 10 % . 6,67 5,76 100 50 , 16 % .

1.

"

»: . . . – : " " . – 2008. – . 16. – . 13–16.

2.

»: . . . // « . – 2009. – . 1/2009 (3). – . 100–105.

3.

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4.

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5.

. . . , 1990. – 231 .

6.

. . . , 1988. – 209 .

11.12.2012 .