2- ... (... 2).

.5, ... 0.4 ...

4. ...

.6 ...

4.1 ...

1. ...

5 , 1.5
0.1 .

. 7,

i (*i* 1, 2,. ,)

4.2

8

(*i* 1, 2, ...,).

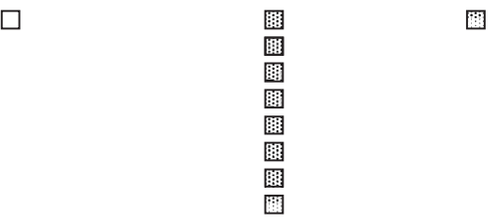

Fig. 7 Detection of miss-alignment by use of matrix display

Fig. 9 Relation between attenuation band widths measured using the system and nugget diametersys

9 2. 0.5

5.

(1)

(2)

1) , 2001, . 2 5. ( )

2) . 2001. . 5 5 . ( )

) . 1 , . 101 12 .