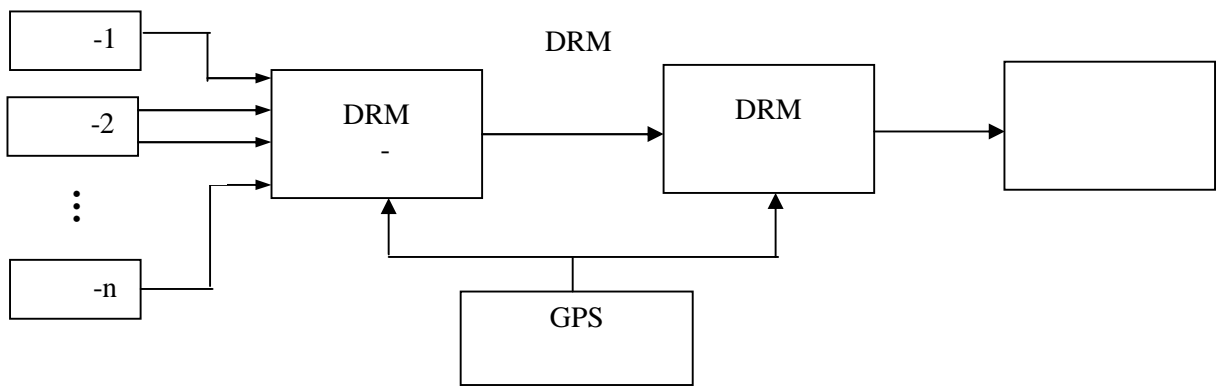


[2, 3],
DRM - BS.1615 [4],
DRM [5].
- (,);
DRM
DRM
DRM
DRM,
;
DRM
DRM [5], [6]
1
DRM [7]:
DRM - , ;
DRM GPS ;



1 -

DRM [7]

(/), [2]: $\geq \Sigma + /$ (1)

DRM [4, 8, 9]. BER 10^{-4} [6]. DRM

1260, 10, 9, .1.

OFDM	(MSC)	(SDC)	40 %	- S (0,4)	23,6
	64-	16-			

DRM

(), [5]. 18

DRM 9 / /64/16/0,6/S (.1) 20 [5]. 16,4 - [4, 6]

2007 . [5],

DRM

80 (/)

10

[6, 10],

[6] (. 2).

2 –

$t^{\circ}\text{C}$	4	0	-10	-16
Δ ,	4	8	13	15

DRM
64-

0,6

20 ,
3,6 .

= 40,9 (/) [6]

: ' = 40,9 + 3,6 = 44,5 .

. 2.
3° , ,

. 2,

$\Delta = 9,5$.

64-

0,6

" = 44,5 + 9,5 = 54 (/).

$$525 = 60 + 6 = 66 \quad / (\quad /), \quad 1251 = 58,5 \quad (\quad /).$$

$$58,5 - 54 = 4,5 \quad (\quad /).$$

$$54 \quad (\quad /),$$

DRM

DRM

1)

2)

R_0

2)

3)

DRM

R_0

$$E_1(R_0) -$$

1 ;

$$(R_0) = {}_1(R_0) + \quad , \quad (2)$$

$$E_1(R_0)$$

()

4) $\Delta = (R_0) - = 0,$ (2)

$$\Delta = (R_0) - = 0,$$

R_0

$\Delta > 0,$

$\Delta < 0,$

$\Delta R.$

(R)

R

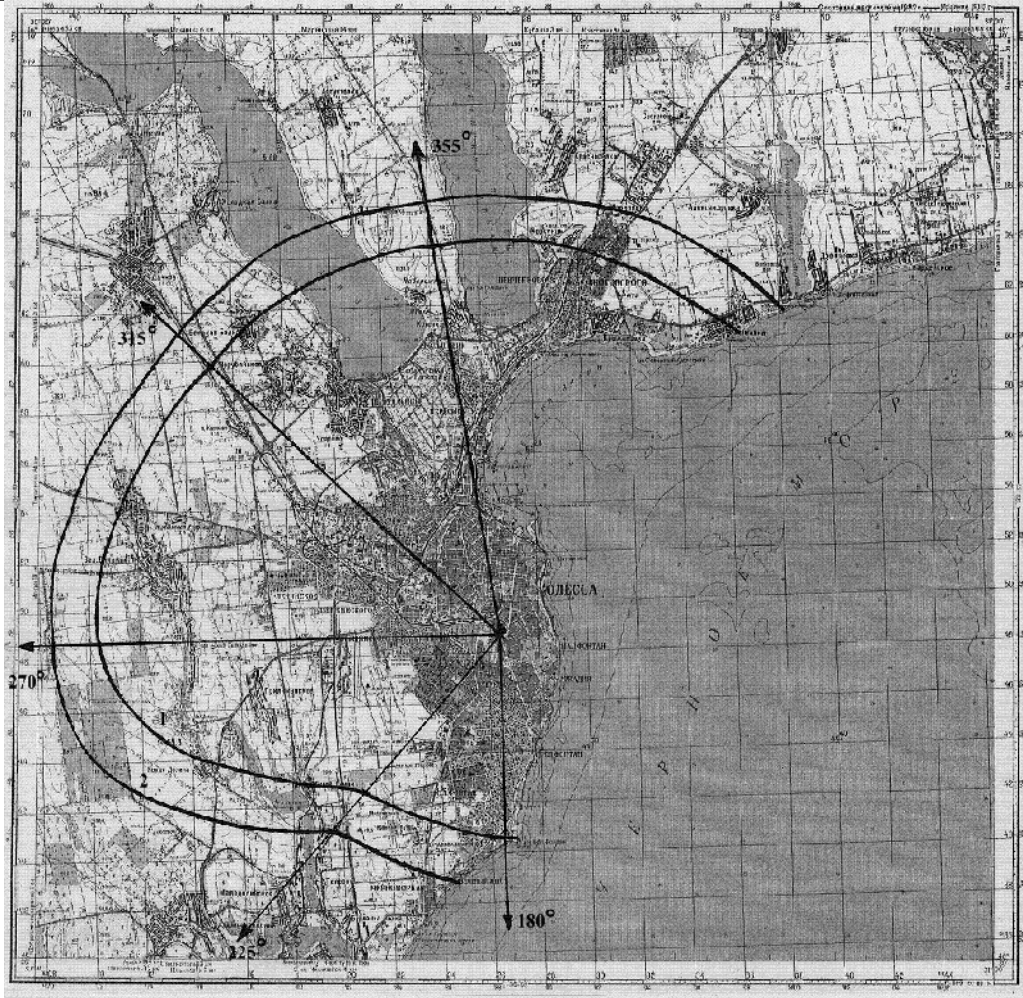
$$\Delta = 0.$$

5)

$$\Delta = \frac{\Delta \psi}{(R)} - = 0. ,$$

[6, 11].

[11]:



2 - DRM (

1 - 64- $P_e = 10$;
 2 - 16- $P_e = 7$

, , 16- ,
 ,
 DRM ,

DRM

- BS. 1615 [4]

DRM

DRM

[4],

[10].

DRM

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