

DEVELOPMENT OF MATHEMATICAL MODELS FOR STUDY
OF GEOTECHNICAL PROPERTIES OF MARSHES

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Key words: metamorphic and degradation processes; molecular beam epitaxy (MBE); diffusion stage; flicker noise; relaxation of swamps

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[2].

[3].

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(1).

$f(t)$, $f(t)$ $[0;T]$

$f(t)$ —

(,) [4].

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$$f(t) = p_0 + k_0 t + \sum_{i=1}^N \left(a_i \cos \frac{2\pi t}{T_i} + b_i \sin \frac{2\pi t}{T_i} \right), \quad (1)$$

, k_0 —

(t); a_i, b_i —
(t).

N
(1)

0, k_0, a_i, b_i
($i=1,2,\dots,N$).

$3N + 2$.

$3N+2$

i

i

: , k_0, a_i, b_i .

$2N+2$

t_i ($i=1,2,\dots,30$).

$$Y(t) = 1 - 0,5t + (\sin 2\pi t + \cos 2\pi t) + (\sin \pi t + \cos \pi t) + \left(\sin \frac{2}{3}\pi t + \cos \frac{2}{3}\pi t\right). \quad (2)$$

(1)

5

i.

(1).

(2)

(t),

(1) (N(t)).

(1)

20

(2).

20

(2)

(1).

(2)

10

(2) 21 30

(t)

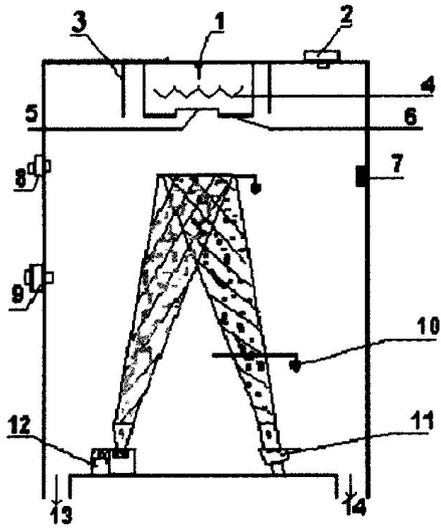
1 %.

(2)

(I),
20

(21 30 — N(t))

	(t)	M(t)
1	1,57	1,57
2	2,02	2,03
3	2,59	2,52
4	4,12	4,15
5	0,62	0,62
6	5,16	5,17
7	2,76	2,77
8	3,19	3,20
9	3,77	3,77
10	5,33	5,33
11	1,81	1,82
12	6,39	6,35
13	3,96	3,97
14	4,36	4,36
15	4,96	4,96
16	6,51	6,53
17	3,00	3,01
18	7,49	7,50
19	5,16	5,15
20	5,53	5,54
21	6,14	6,15
22	7,69	7,71
23	4,19	4,19
24	8,66	8,66
25	6,39	6,36
26	6,69	6,71
27	7,32	7,34
28	8,87	8,89
29	5,37	5,38
30	9,82	9,85



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 3 — , 4 — ,
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1. , 2006. – 287 .
2. , 2014. – 392 .
3. , 1965. – 193 .
4. / , 2011. – 111 .

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