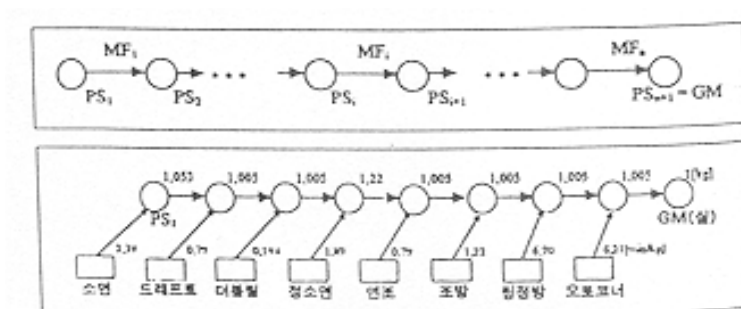


가 30% 100%

$$a_j \quad 0 \leq a_j < 1, j = 1(1)n \quad ,$$

$$< 1 > , MF_j = (1-a_j)^{-1}, j=1(1)n$$

$$\text{MF} = (1-a)^{-1}$$



() ,

, GM
 , $PS_i, i=2(1)n$
 PS_i . k
 i , k i
 1 .

$$PS_k = \left(\prod_{j=k}^{i-1} MF_j \right) \cdot PS_i = MF_{k,i} \cdot PS_i \dots\dots\dots (2)$$

단, $1 \leq k \leq n, 2 \leq i \leq n+1$

$MF_{k,i}$ (,) 가
 가 . $MF_{k,i}$ k i
 .

< 1 > Nm 100(Ne 60) 1,000kg

	(Nm)		MF_j	$MF_{k,j}$	$MF_{k, n+1}$	PS (kg)
	100					1,000
8	100	0.005	1.005	-+	1.005	1,005
7	100	0.005	1.005	1.020	1.010	1,010
6	2.2	0.005	1.005		1.015	1,015
5	0.22	0.005	1.005	-+	1.020	1,020
4	0.22	0.180	1.220	1.220	1.244	1,244
3	0.014	0.005	1.005	-+	1.251	1,251
2	0.22	0.005	1.005	1.063	1.256	1,256
1	0.22	0.005	1.053	-+	1.323=MF	1,323

() : $Ne=0.591 \times Nm$

< 1 >

,

$MF_{k,i}$

(

PS) (2) PS_k

2.

(spinning plan)

가

가

4

1 2 ()

가

$MF_j, j = 1(1)n$

$a_j, 0 \leq a_j < 1,$

$j=1(1)n$

(logic)

.(1)

$MF=(1-a)^{-1}$

가

가

(fuzzy)

$MF_j, j=1(1)n$

3. 1. 3
 3 2

2 (Nm 100 10)

	(Nm)		tg(min/kg)	(h)
	100	1.005	6.21	1,040
	100	1.010	6.70	1,128
	2.2	1.015	1.22	206
	0.22	1.020	0.79	134
	0.22	1.244	1.89	392
	0.014	1.251	0.194	40
	0.22	1.256	0.79	165
	0.22	1.323	2.39	527

3.

k GM k
 (,)

$$DZ_k = \left(\prod_{j=k}^n MF_j \right) \cdot GM \cdot tg_k \dots\dots\dots (3)$$

, tg_k k lkg .

.
.
,
가 .

< 2 >

.
.
(intermediate logic)

< 3 > 10t ,
10t
1,128 , 1,477
349 (30%
) , 가 349
, 가 14.5 (1 24
가)
1,139 , 11 (1%)
30%
.
가
가 가
.
,
,
(k + 1)

< 3 >

(Nm 100 10t)

	(Nm)	(h)		
	100	1,040	1,056	1,369
	100	1,128	1,139	1,477
	2.2	206	20	269
	0.22	134	134	174
	0.22	392	392	416
	0.014	40	43	43
	0.22	165	174	174
	0.22	527	527	527

가

가

가

4. MSO

MSO(model simulate optimise)

Dr. Gellert & Co.

MRT

化

MSO

가

가

MRT

(routine)

2

3가

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가 CAD

가

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가 ,

(band function component)

5.

가

