



	2020-32135 -24-03-512161		
			13 14 55031
	1		
	<u>11 4 13.772 34 05 20.1 3</u>		
	2452		2 2
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	<p>1</p> <p>2001 6</p> <p>2006 1</p> <p>2</p> <p>200 1</p> <p>3</p> <p>11</p> <p>200 17</p> <p>2015</p> <p>2015 131</p>
	<p><b>1</b></p> <p>1</p> <p>201</p> <p>51.4</p> <p>2020 2</p> <p>2020-32135 -24-03-512161</p> <p><b>2</b></p> <p>2015 131</p> <p>1</p> <p><b>3</b></p>

	<p style="text-align: center;">2006 1</p> <p style="text-align: right;">1</p> <p style="text-align: center;">2006 1</p> <p style="text-align: center;">200 1</p> <p style="text-align: right;">200 17</p>
	<p style="text-align: left;"><b>1</b></p> <p style="text-align: left;">1</p> <p style="text-align: right;">1</p> <p style="text-align: right;">201 74</p>

		1-1				
		<b>1-1</b>				
		11 43 3 34 04 21				
		1000		1000		
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		11 43 2 34 03 40				
		1000		1000		
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	.6					
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74						
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					2020	1
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		<b>[2020]33</b>		
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**1-5**      **2020**

2020    7    1

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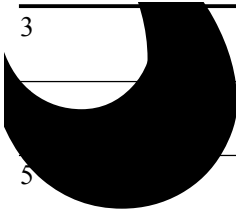
		7 15		
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2020 33

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3		Τ.Σ.Μ.Ε.Α. Α.Ε.
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2000 ΒΕΝ.Λ.Σ.Β.Υ.1 □ □

ΕΠΙΧΕΙΡΗΣΕΙΣ, Ο ΛΟΓΙΣΜΟΣ.

ΕΠΙΧΕΙΡΗΣΕΙΣ, Ο ΛΟΓΙΣΜΟΣ

>|ΕΠΙΧΕΙΡΗΣΕΙΣ, Ο ΛΟΓΙΣΜΟΣ.

	1.				
	2.2020				
	11.	66. 2 .2	5.4 2.7	14 .6	1.2
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	1.	524.15		2020	1.
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<b>5</b> <b>2018 122</b> <b>1-9</b>			
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	15		
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				/	/	
1			-5545	0	6	+6
2			-5030	0	6	+6
3			3	0	6	+6
4			/	0	6	+6

5		16	3	3	0
6		-250	1	1	0
7		1600	0	15	+15
		1200	0	15	+15
		100	0	1	+1
10		50	0	1	+1
11		00	0	1	+1
12		50	0	1	+1
13		-30	0	1	+1
14		$\frac{10}{7.5}$	0	1	+1

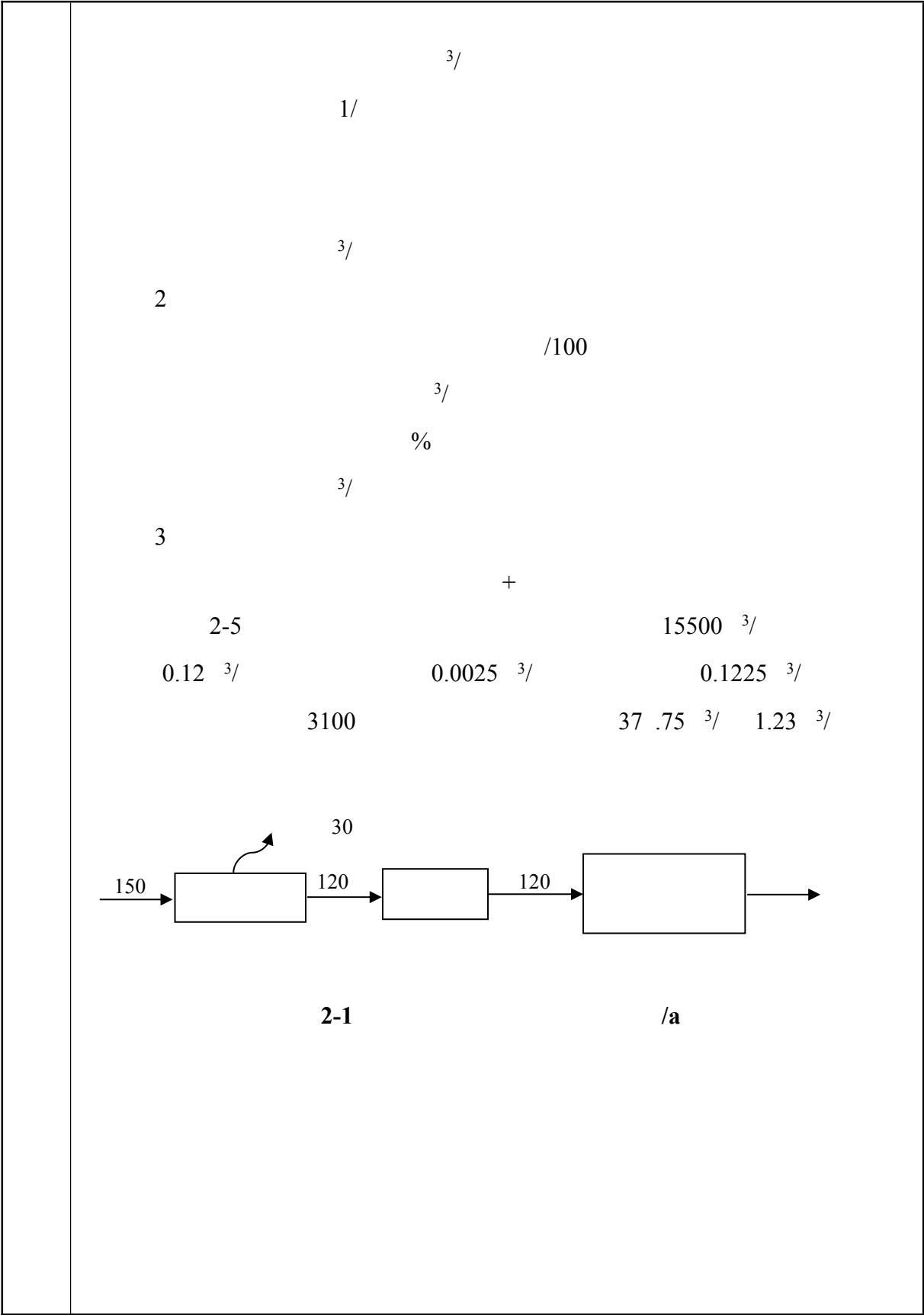
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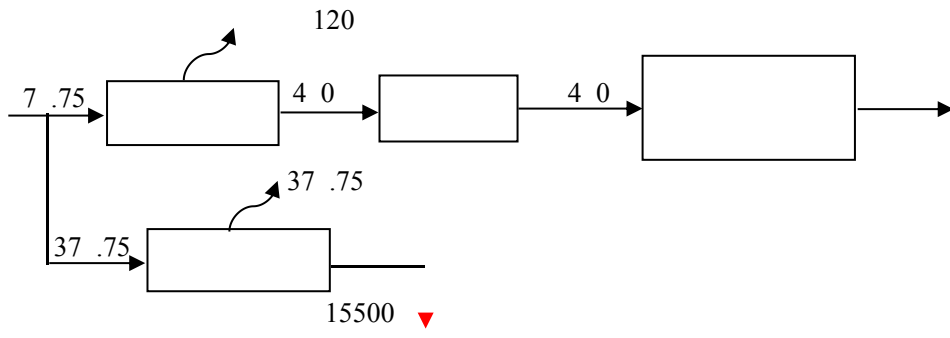
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**2-4**

		/a	/a	/a			
1		0	300	+300			25 /
2		0	50	+50			25 /
3		0	10	+10			25 /
4		0	0.01	+0.01			1 /
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						5 <sup>3/</sup>		
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						2-5		
		2-5						
<sup>3/h</sup>						%		
	5	15	40	25			0.05	
<b>1/</b>			-10	0	10	20	30	40
	0.0016		0.000	0.001	0.0012	0.0014	0.0015	0.0016
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				1.2		0.		
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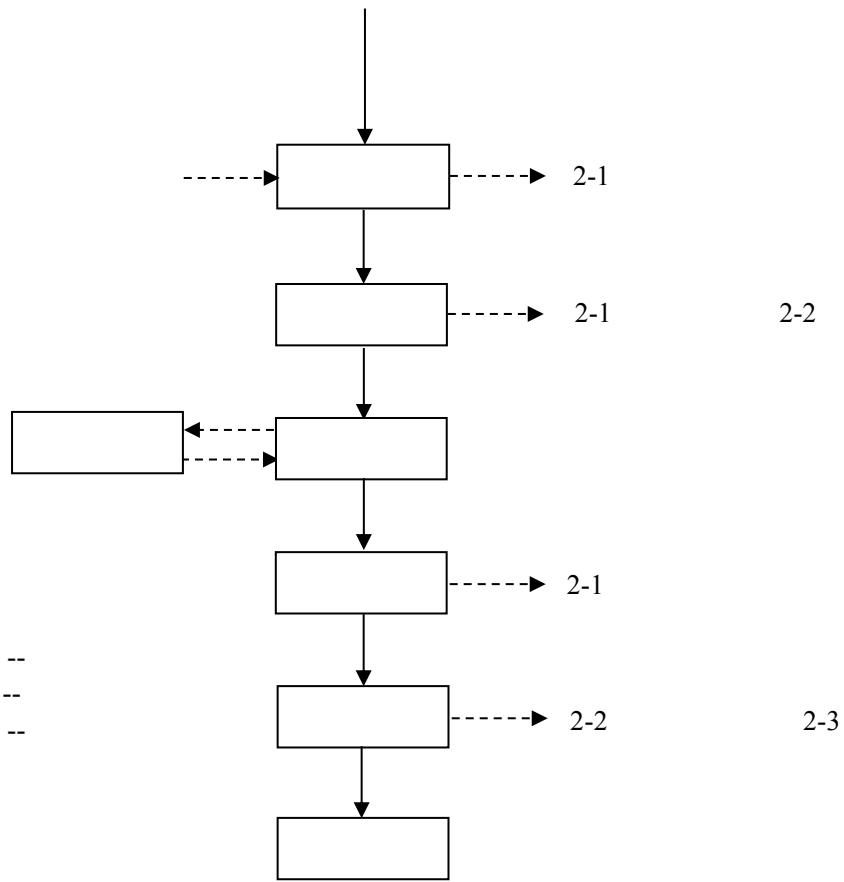
2

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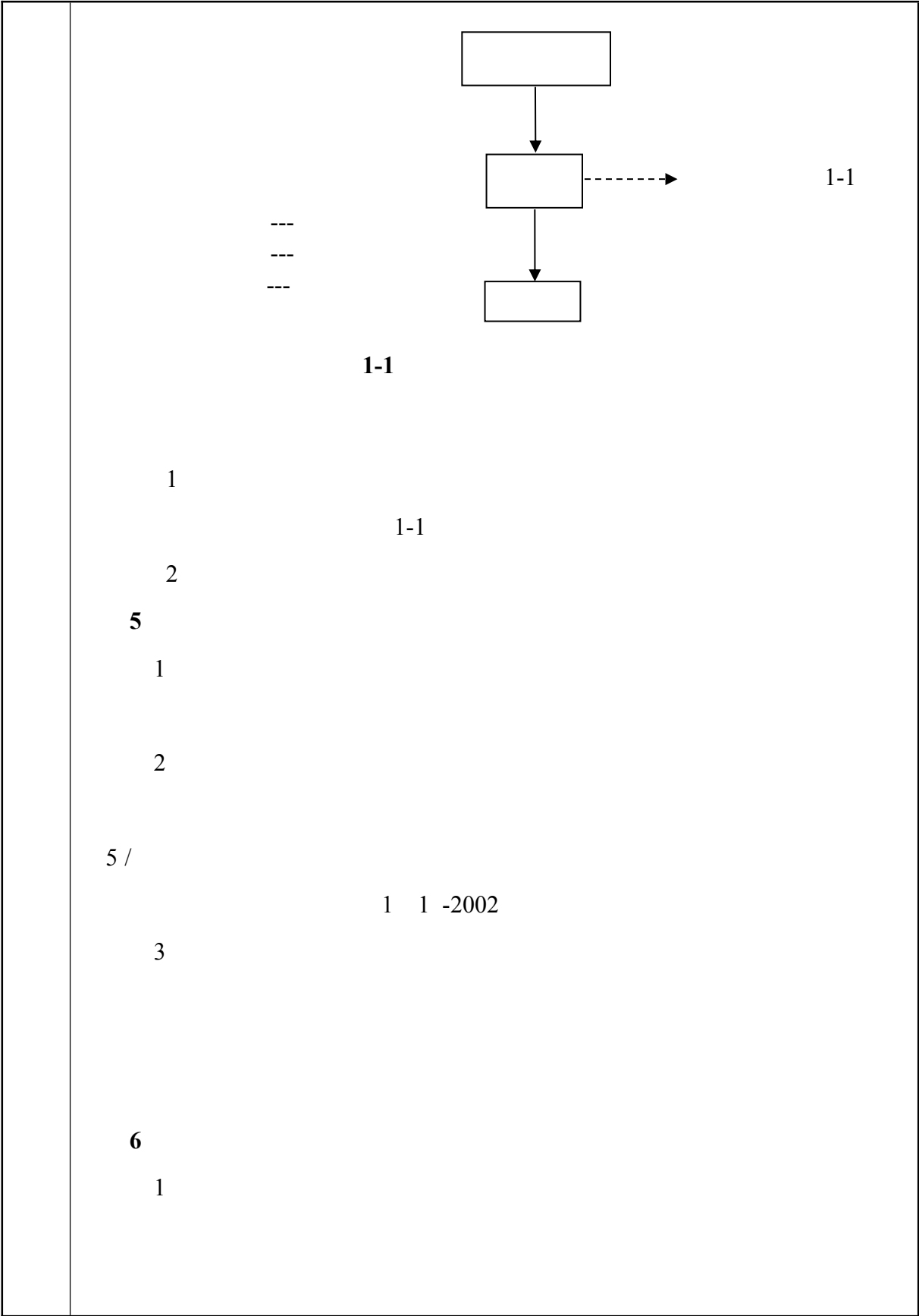
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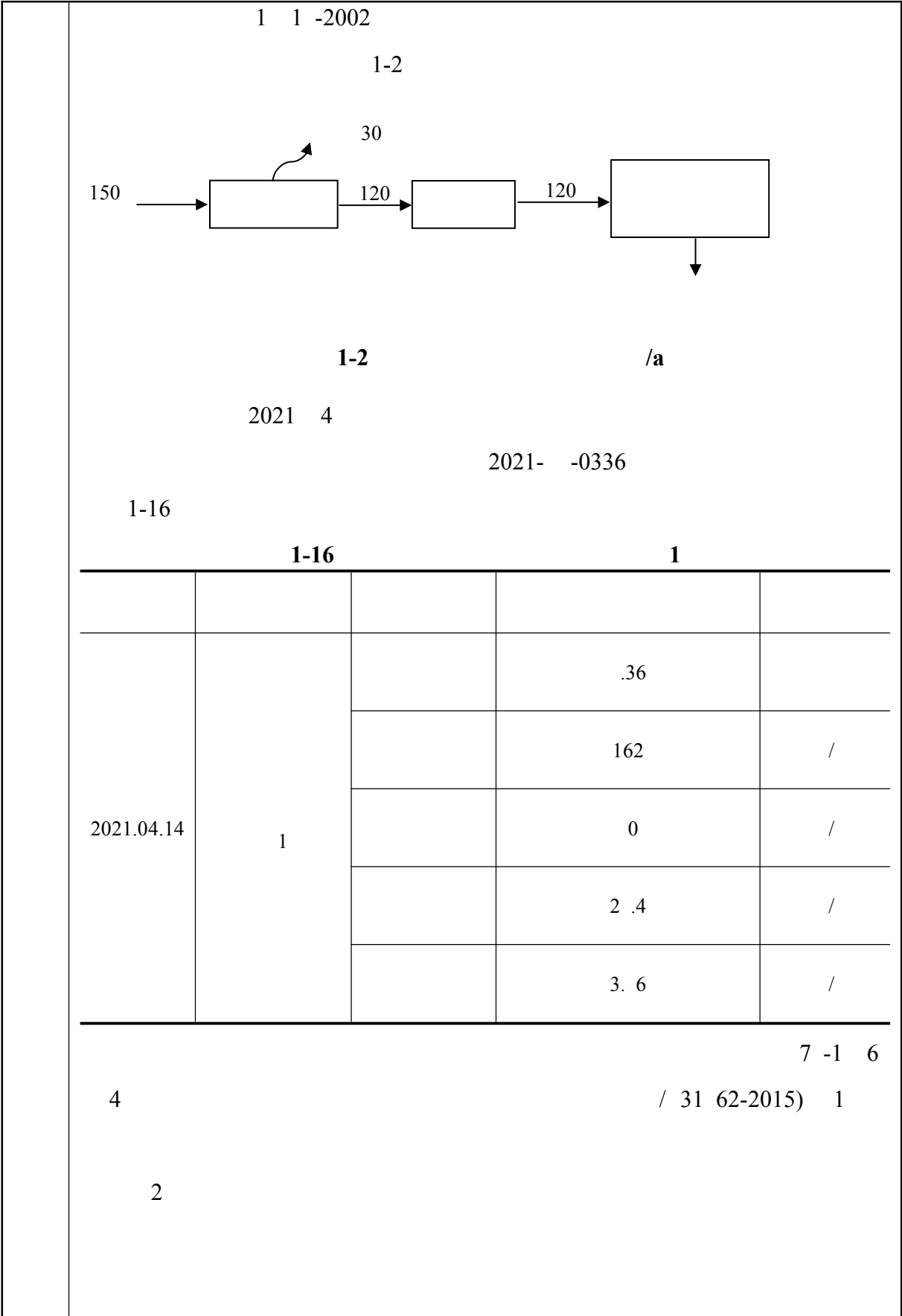
2-3

150-220

				1	1	2
	1					3
	<b>1</b>			201	6	
		1				2021
	<b>2</b>					
			1-14			
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		/	/	/	/	
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1234 -200 3			
2021- -0336			
1-20			
<b>1-20</b>			
		<b>dB(A)</b>	
		<b>2021</b>	<b>4 14</b>
1	1	57	46
	1	55	47
3	1	55	46
4	1	56	47
		65	55
		1. / 2.2 /	
1234 -200 3			
		65	55
7			
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120 <sup>3/</sup> 0.4 <sup>3/</sup>		2021- -0336	
		162 /	0 / 3- 2 .4 /
3. 6 /		0.01 4/ 0.00 6 /	
3- 0.0034 / 0.0005 /			
2			
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<b>1-21</b>				
		<b>/a</b>		
1		1.2		
2		1.5		
<b>8</b>				
1				
1				7 122
<b>9</b>				



- ( 2.2-201 )

( 30 5-2012)

3-3

3-3

g/ <sup>3</sup>

		g/ <sup>3</sup>		
1	2020.10.0	02 00	0.5	
		0 00	0.57	
		14 00	0.55	
		20 00	0.64	
		2020.10.10	02 00	0.5
			0 00	0.62
			14 00	0.64
			20 00	0.56
		2020.10.11	02 00	0.63
			0 00	0.53
			14 00	0.5
			20 00	0.65
	2020.10.12	02 00	0.65	
		0 00	0.56	
		14 00	0.5	
		20 00	0.52	
	2020.10.13	02 00	0.65	
		0 00	0.5	
		14 00	0.5	
		20 00	0.74	
	2020.10.14	02 00	0.63	
		0 00	0.60	
		14 00	0.6	
		20 00	0.65	
	2020.10.15	02 00	0.65	
		0 00	0.72	
		14 00	0.62	
		20 00	0.67	

3-3

g/ <sup>3</sup>

		g/ <sup>3</sup>		%	%	
1		2000	0.52-0.74	0.37	0	

				-	( 2.2-201 )
		2021			
	2021	5	2021	2.5	43 /
			74.2%	4.5 /	
					2020
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	.....				
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2017-201

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3-4

g/ , H

		H	DO	COD	COD <sub>M</sub>							LAS
	2017	7.36	4.	1	4.4	0.002	1.23	0.236	0.035	0.006		
	201	7.2	5.3	21	4.	0.002	1.3	0.23	0.04	0.004	0.03	
	201	7.31	6.52	20	5.1	0.0016	1.32	0.21	0.04	0.006	0.0 3	
	2017	7.35	5.05	1	4.2	0.0022	0. 6	0.1	0.04	0.006	0.02	
	201	7.47	5. 6	21	4.7	0.0021	0. 2	0.21	0.04	0.005	0.03	
	201	7.21	6. 0	20	4.7	0.0017	1.14	0.1	0.04	0.005	0.0	
		6	3	30	10	0.01	1.5	0.3	0.5	0.05	0.3	

ND

LAS

0.05 g/ <sup>3</sup>

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0 47.7 ( )

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		666726.50	34.0 660					15
<b>UTM</b>								
<b>3-6</b>								
				6 40				3 3 -2002
				15	450			30 6-200 2
				7100	6 .34			
<b>1</b>								
31572-2015 5								
37 22-201								
31572-2015								
14554- 3 1								
2 3-7 3-								
<b>3-7</b>								
		<b>g/ <sup>3</sup></b>	<b>g/h</b>		<b>g/ <sup>3</sup></b>			
1		60	1.2	15	4.0	31572-2015 5		
2		2000		15	60	( 14554- 3) 1 2		
<b>3-8</b>								
		<b>g/ <sup>3</sup></b>						
		6			1			
		20						
<b>2</b>								



7 - 6 4  
/ 31 62-2015 1

1 1 -2002 1

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<b>3-9</b>		<b>g/L</b>	<b>H</b>
	6-		6-
	500		50
	400		10
	35		5
			0.5
	70		15
		7 -1 6 4	
		/ 31 62-2015	1
		1 1 -2002	1

**3**

1234 -200 3

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**3-10**

**GB12348-2008**

	<b>dB(A)</b>	<b>dB(A)</b>
3	65	55

**4**

1 5 -2020

1 5 7-2001

2013 36

2000 120

2010 61

3-11				/a					
		1#		0.74	0.77	-	0.07		
				0.07	0	-	0.07		
				360	0	360	360		
				0.144	0.126	0.10	0.01		
				0.10	0.104	0.072	0.004		
				0.00	0.007	0.00	0.002		
				0.001	0.000	0.001	0.0002		
				0.011	0.006	0.011	0.005		
				3.6	3.6	0	0		
				4.37	4.37	0	0		
3.12				/a					
							*		
								*	
		0	0	0.74	0.77	0.07	0	0.07	+0.07
		0	0	0.07	0	0.07	0	0.07	+0.07
		120	120	360	0	360	0	40	+0.01
		0.036	0.006	0.144	0.126	0.01	0	0.024	+0.004
		0.024	0.001	0.10	0.104	0.004	0	0.005	+0.002
	3-	0.003	0.0006	0.00	0.007	0.002	0	0.0026	+0.0002
		0.0004	0.00006	0.001	0.000	0.0002	0	0.00026	+0.005
		0.003	0.001	0.011	0.006	0.005	0	0.006	+0.01
		0	0	3.6	3.6	0	0	0	0
		0	0	4.37	4.37	0	0	0	0
0.07/				0.07/					

2014 14						
2			1.5			
			360 /			
0.10 /	0.072 /	3-	0.00 /	0.001 /	0.011 /	
	0.01 /		0.004 /	3-	0.002 /	0.0002 /
0.005 /						
0.0 7 /				0.0 7 /		
2014 14						
2			1.5			
				4 0 /		
	0.144 /		0.0 6 /	3-	0.012 /	0.0014 /
0.014 /			0.024 /		0.005 /	3- 0.002 /
0.0002 /	0.007 /					

1											
4-1											
4-1											
	( <sup>3</sup> /h)		( <sup>g</sup> / <sup>3</sup> )	(g/h)	(/a)		(%)	( <sup>g</sup> / <sup>3</sup> )	(g/h)	/a	( )
1#	5000		72.33	0.364	0.74		0	7.23	0.036	0.07	15
2-1											
1 0 200											
360.1 /											
2 2											
2 2											
1											
2.70 / -											
0.71 /											
2400											

			+				0%
		0%		5000 <sup>3/</sup>	15		
				0. 74 /		72. 33 / <sup>3</sup>	
	0.364 /						0.0 7 /
		7.2 3 / <sup>3</sup>		0.036 /			
						31572-2015	5
	<b>2</b>						
					4-2		
					4-2		
				/			
				/a			<b>g/h</b>
				0.0 7		20	45
							0.0405
							10%
					0.0 7 /		0.0405 /
							31572-2015
	5						
		37 22-201					
				31572-2015			
	<b>3</b>						
				-	2.2-201		
							50%
					4-3		

4-3

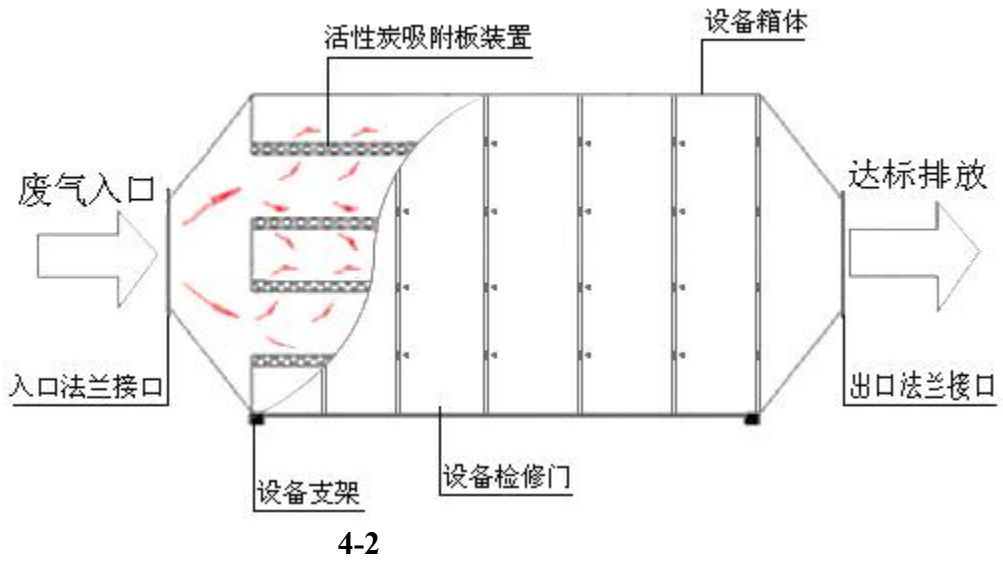
500 1 10-10  
700 2300 <sup>2/</sup>

50

0%

0%

4-2



4-4

	5000
<sup>3/h</sup>	300*250*100
	12 40
<b>c</b> <sup>3/g</sup>	0. 1
	5%
( <sup>2/g</sup> )	1000 1500
	10
	1

g	30
	0.3 /
1100	
2	



4-5

**4-5**

		g/ <sup>3</sup>	g/h	g/ <sup>3</sup>	g/h	
201 .1.5	01	.2	0.14	0.	0.013	0.7
		.06	0.14	0.	0.013	0.7
		.64	0.15	0. 6	0.013	1.3
201 .1.6	01	.66	0.15	0. 4	0.012	2
		.11	0.14	0. 7	0.013	0.7
		.45	0.15	0. 5	0.013	1.3

0%

**5**

1

4-6

**4-6**

		2000	/ <sup>3</sup>	

- ( 2.2-201 ) 5.3

- 2.2-201

4-7

**4-7**

			10%
		1%	10%
			1%



	/	/
	/	/

10%

**4-11**

		10%
	1%	10%
		1%

**4-12**

			<b>Kg/h</b>	<b>g/ ³</b>	<b>Pi %</b>	<b>g/ ³</b>	<b>D10%( )</b>
	1#		0.036	2	0.13	0.001 74	0
			0.0405	2	1.35	0.0202	0

1.35%

0.0202 / ³

- 2.2-201 5.3

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44D





	1	001	1#	,			4	1 /	3 -2017	3157 2-201 5 5
				,			4	1 /	14675 /	1455 4- 3 2
	2		/	,			4	1 /	- 604-2017	3157 2-201 5
				,			4	1 /	14675 /	1455 4- 3 1

9

31572-2015

5

15

37 22-201

31572-2015

1

30

300

50 / \*

450 /

0.

360 /

2

5 <sup>3/</sup>

6. <sup>3</sup>

/ 50102-2014

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**4-19**

<sup>3/h</sup>								<sup>%</sup>	
	5		15	40		25			0.05
<b>1/</b>				-10	0	10	20	30	40
	0.0016			0.000	0.001	0.0012	0.0014	0.0015	0.0016
				0.1		0.05			
				1.2		0.			





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600 <sup>3/</sup>

2 <sup>3/</sup>

5 <sup>3/</sup>

300 /

200 /

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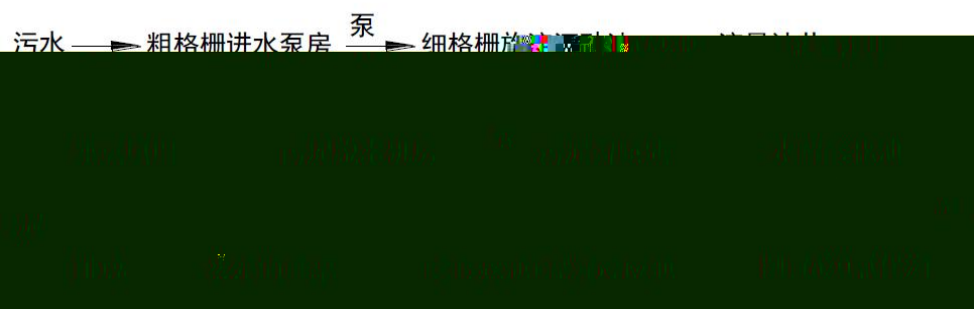
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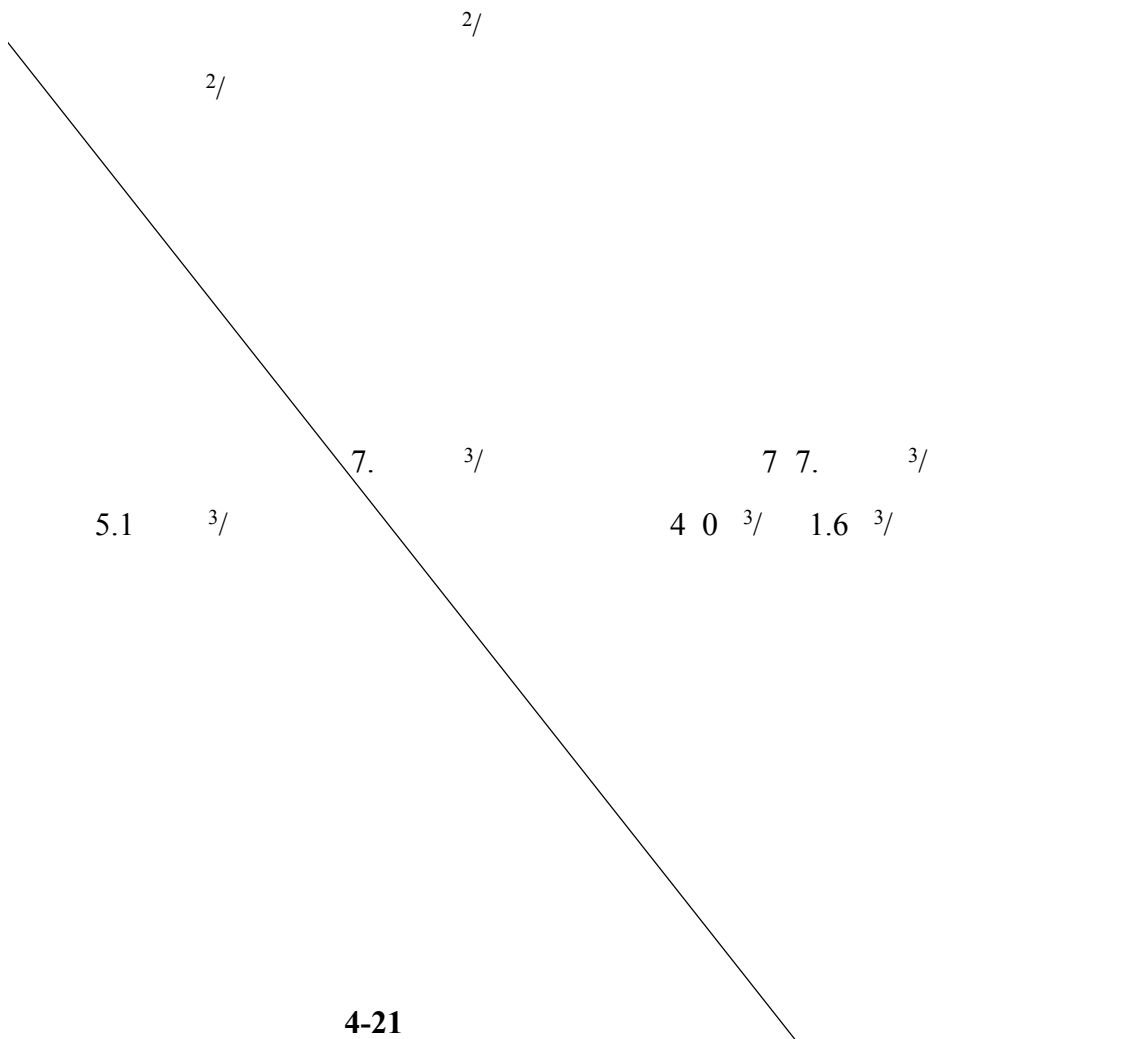
I I -500-



4-4

2/

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**4-21**

<b>/a</b>	<b>g/ L</b>	<b>/a</b>	<b>g/L</b>	<b>/a</b>	<b>g/L</b>	<b>/a</b>
	400	0.144	300	0.10	50	0.01
	300	0.10	200	0.072	10	0.004
	25	0.00	25	0.00	5	0.002
360	3	0.001	3	0.001	0.5	0.0002
	30	0.011	30	0.011	15	0.005

	/a									/a
	4 0		400	0.1 2		300	0.144		50	0.024
			300	0.144		200	0.0 6		10	0.005
			25	0.012		25	0.012		5	0.0026
			3	0.0014		3	0.0014		0.5	0.00026
			30	0.014		30	0.014		15	0.006

4-23

				/		/	g/L
1				/a			50
2							10
3	00	11	34 0	4 0	/		5
4	1	4 '5	4'57.				0.5
		0.42"	11"				15
5							

I



'A ? i ?

	3	4.
		+ 2/
	+	
		205
		50000 <sup>3/</sup>
		4 0 <sup>3/</sup> 1.6 <sup>3/</sup>
0.0032%		
	4	
	1 1 -2002	
	5	
	4-25	



1 1 -2002 1

3

70 0 ( )

2.4-200

1

$$L_A(r) = L_A(r_0) - A$$

( )

0 0 ( )

2

( )

$$L_{eqg} = 10 \lg \left( \frac{1}{T} \sum_i t_i 10^{0.1 L_{Ai}} \right)$$

( )

( )

3

( )

$$L_{eq} = 10 \lg(10^{0.1L_{eqg}} + 10^{0.1L_{eqb}})$$

( )

( )

4

$$A_{div} = 20 \lg(r / r_0)$$

0

4-26

**4-26**

**dB**    **dB**            **dB**    **dB**    **dB**  
**A**    **A**            **A**    **A**    **A**  
**A**                    **A**                    **A**                    **A**



		1	0	25	45	33.06	24.5			
		30	0	25	40	32.04	22.6			
		1	0	25	50	33.	24.03			
		1	75	25	60	35.56	24.44			
		1	75	25	55	34.1	15.1			
		6	75	25	5	3.5	17.43	22.3	57	57.01
		6	70	25	0	3.06	.5			
		1	0	25	0	3.0	1.3			
		30	0	25	5	3.55	15.45			
		1	0	25	5	3.5	1.42			
		1	75	25	0	3.06	1.4			
		1	75	25	0	3.0	10.2			
		1	75	25	0	3.0	10.2			

57.01  
1234 -200 3

5

4-27

					<b>dB(A)</b>	<b>dB(A)</b>
	0 -17	1 -21			65	55
						1 /

4

1

1

30

0.5

4.5 /

2		1.56	1.56		0	
3		4.3 7	4.3 7	0	0	
4		6.0	6.0	0	0	

2

1

2

4.5 / 3. 6 / 4.3 7 /  
10<sup>2</sup>

0.

250 4

0.4<sup>2</sup> 1.6<sup>2</sup>

10<sup>2</sup>

1 5 -2001

10<sup>2</sup>

4.3 7 /

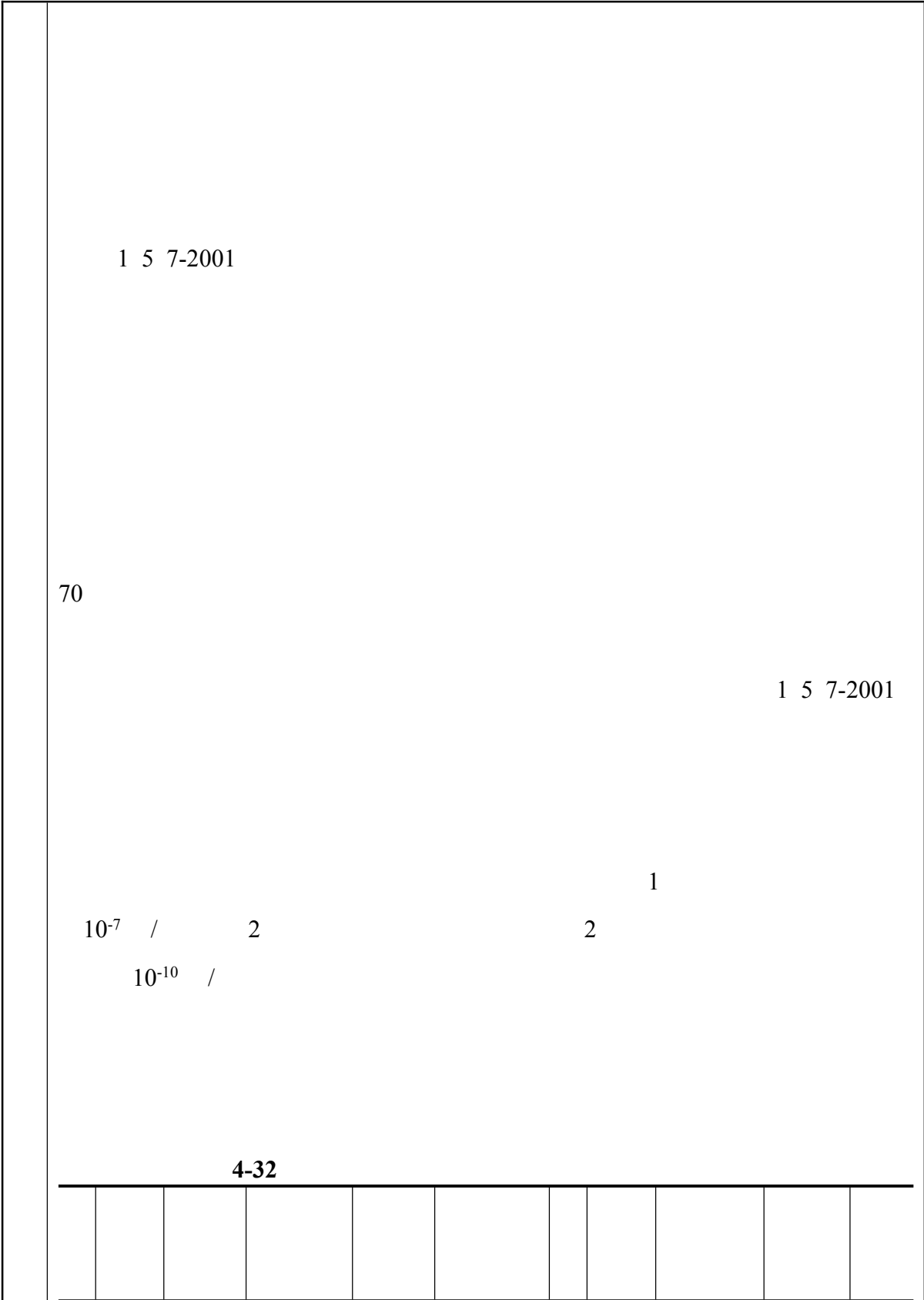
4 1.462 100 4

15 0.4<sup>2</sup>

6<sup>2</sup> 10<sup>2</sup>

3

4-30										
4-31					4-32					
<b>4-30</b>										
										/
1						4	00-03 -4	4.3	7	
2					/	14	/	5.6		
3					/	10	/	0.36		
4					/		/	6.0		
<b>4-31</b>										
										/a
1			4	00-03 -4	4.3	7				
<b>GB18599-2001</b>										



1				4	00-03 -4		10 <sup>2</sup>		1.462	
---	--	--	--	---	----------	--	-----------------	--	-------	--

15562.2-1 5

4-33

**4-33**


5

1

( ) 64-201

-

43606.72

4-34

**4-34**


2

610-2016 4.1

-116

-

3

4-35

4-35

		$10^{-10}$ /
		$10^{-7}$ /

1 5 7-2001

4

6

1

7.5

7.1

1

4-36

4-36

E	P			
	P1	P2	P3	P4
1	+			
2				
3				
+				

$$Q = \frac{q_1}{Q_1} + \frac{q_2}{Q_2} + \dots + \frac{q_n}{Q_n}$$

1 2

1 2



1

1

1 1

10

2 10

100

3

100

4-37

4-37

	<b>i</b>	<b>Qi</b>		<b>i/Qi</b>
	1.462	50	/ 16 -201	0.02 24
	/		/	0.02 24

0.02 24

1

2

16 -201

4-36

4-38

	<b>IV IV<sup>+</sup></b>	<b>III</b>	<b>II</b>	<b>I</b>

3

4

50140-2005

50016-2014

501 7- 3

1.1

	/			
				37 22-201
	1#		5000 <sup>3/</sup> + +15	31572-201 5
		3-	5 <sup>3</sup>	1 1 -200 2 1
		/		1234 -200 3
	/			
	/			

32/ 37 5-2020

2015 224

1

2.

3

4

1

7 122

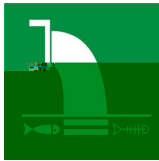

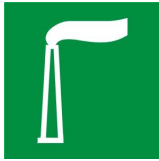

( )






5-1

**5-1**

	-01				
	-02				
	1#				
	-01				
	-01				
	-02				

**5-2**

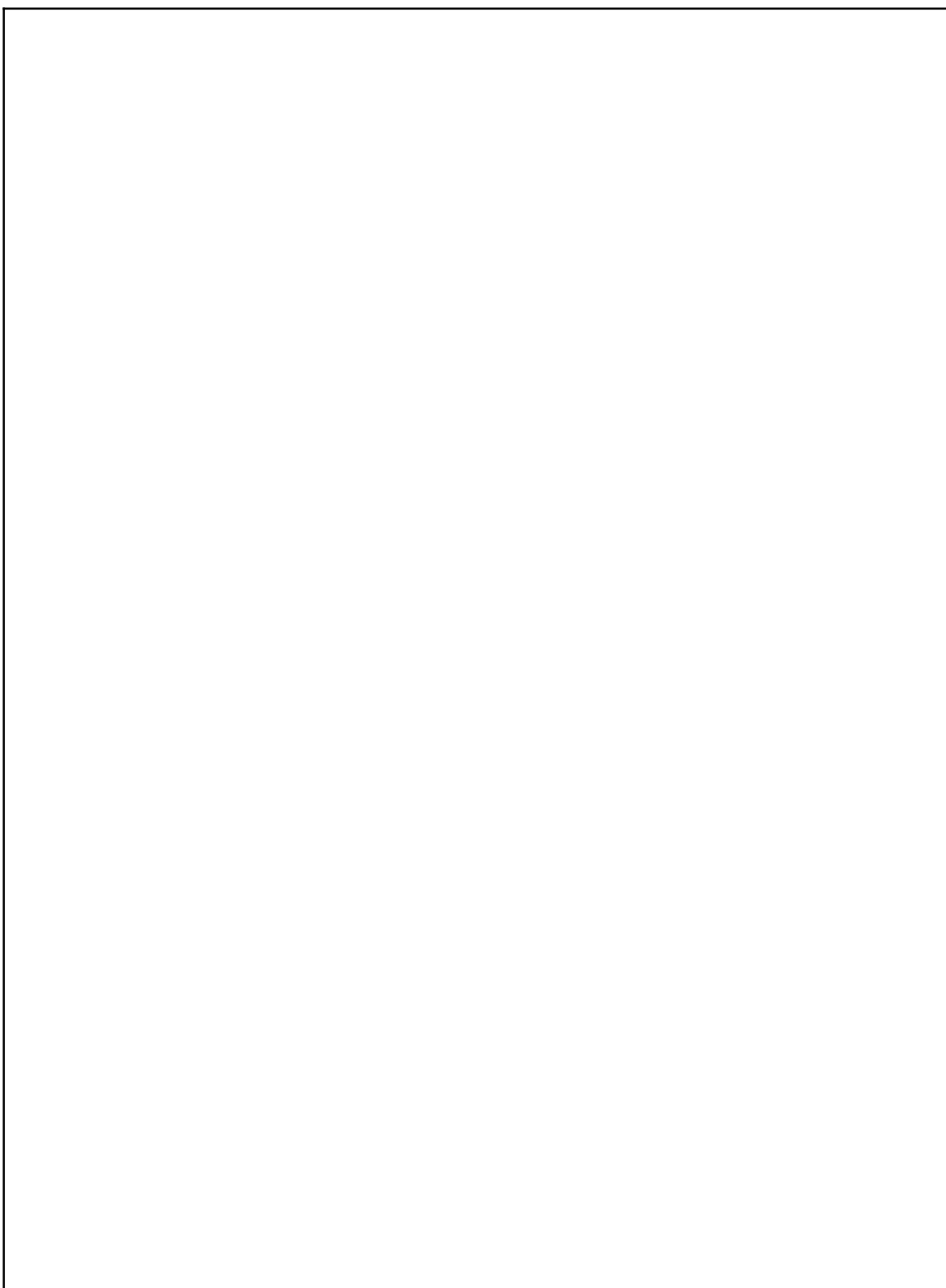
1				
2				

	3				
	4				
	5	/			
1					
2					
3					
4					
2					
5-3					
5-3					
			5000 <sup>3/</sup> +	31572-2015	6
			5 <sup>3</sup>	5	/

				1234 -200 3	2
			10 <sup>2</sup>	1 5 -2001	1
			10 <sup>2</sup>	1 5 7-2001	1
					/
					/
					/
					/
			0.0 7 /	0.0 7 /	
				2014 14	2
				1.5	
				360 /	
				0.10 /	0.072 /
			3- 0.00 /	0.001 /	0.011 /
				0.01 /	0.004 /
					3- 0.002 /
			0.0002 /	0.005 /	
				0.0 7 /	
			0.0 7 /		
				2014 14	2
				1.5	
				4 0 /	
				0.144 /	
			0.0 6 /	3- 0.012 /	0.0014 /
				0.024 /	0.014 /
					0.005 /
			0.002 /	0.0002 /	3-
				0.007 /	
					/



	50	/	
		10	/



		0	0	0	0.184	0	0.184	+0.184
		120	0	0	360	0	4 0	+360
		0.036	0	0	0.10	0	0.144	+0.10
		0.024	0	0	0.072	0	0.0 6	+0.072
	3-	0.003	0	0	0.00	0	0.012	+0.00
		0.0004	0	0	0.001	0	0.0014	+0.001
		0.003	0	0	0.011	0	0.014	+0.011
		1.5	0	0	4.5	0	6	+4.5
		1.2	0	0	0.36	0	1.56	+0.36
		0	0	0	5.6	0	5.6	+5.6
		0	0	0	4.3 7	0	4.3 7	+4.3 7

+ + - -

1  
2  
3  
4  
5  
6  
7

10  
11  
12  
13  
14

1  
2  
3  
4  
5  
6