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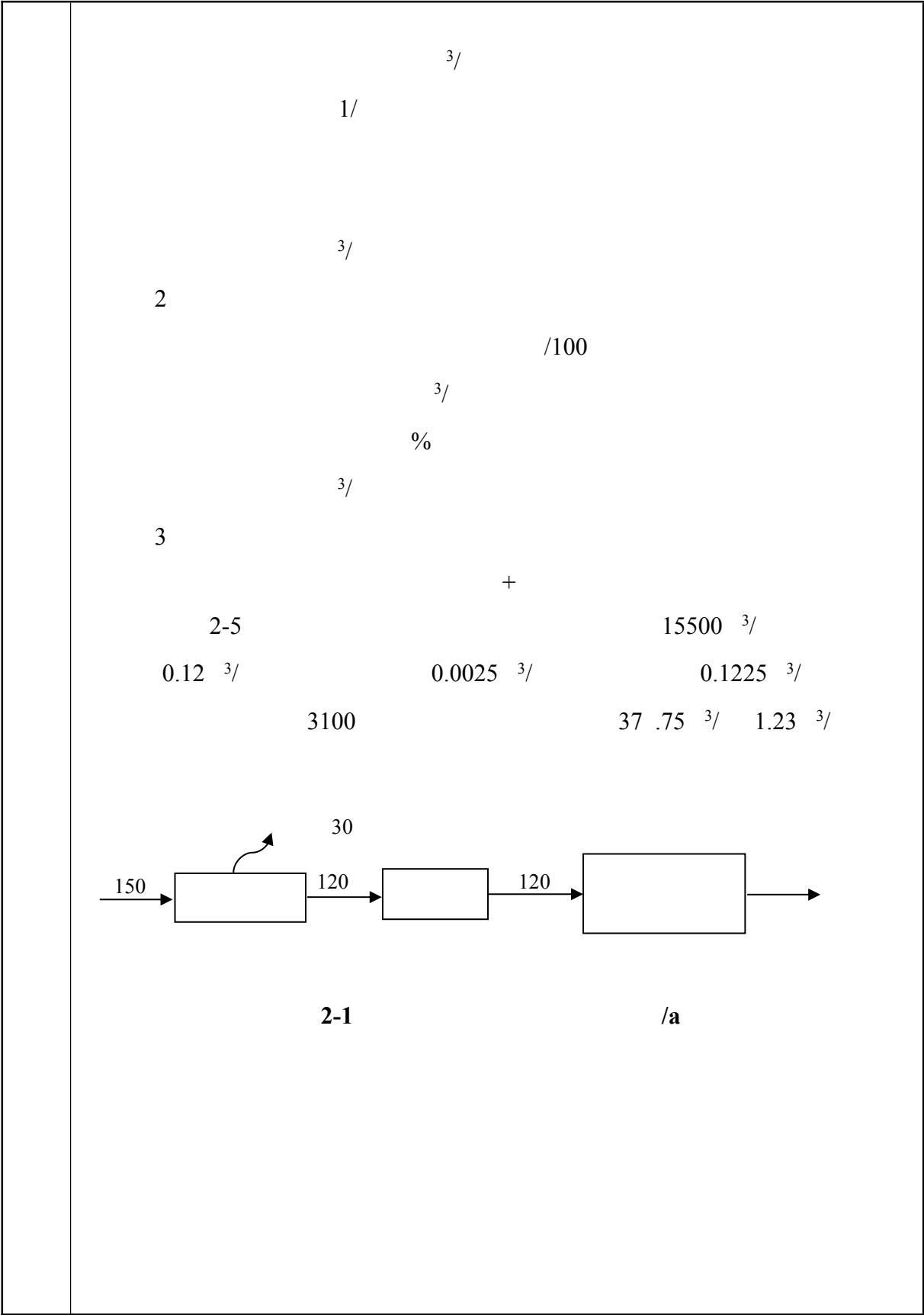
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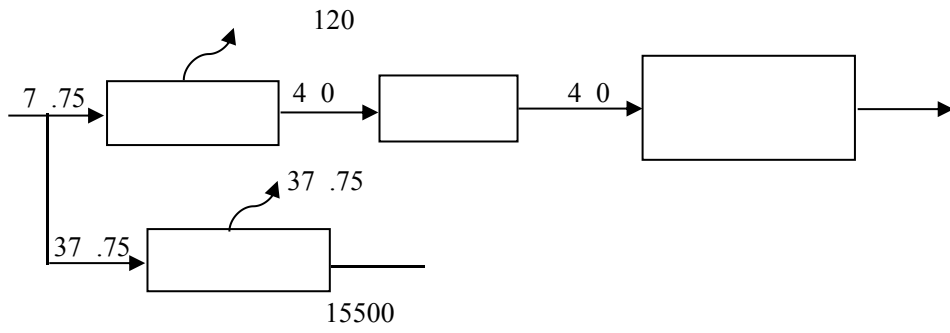
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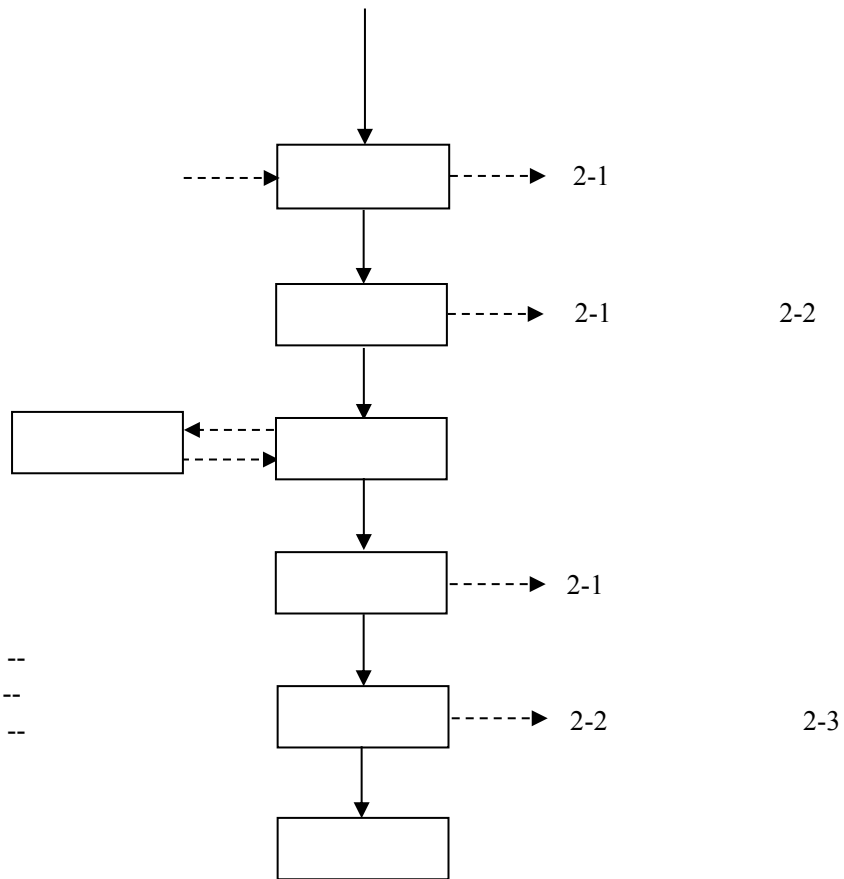
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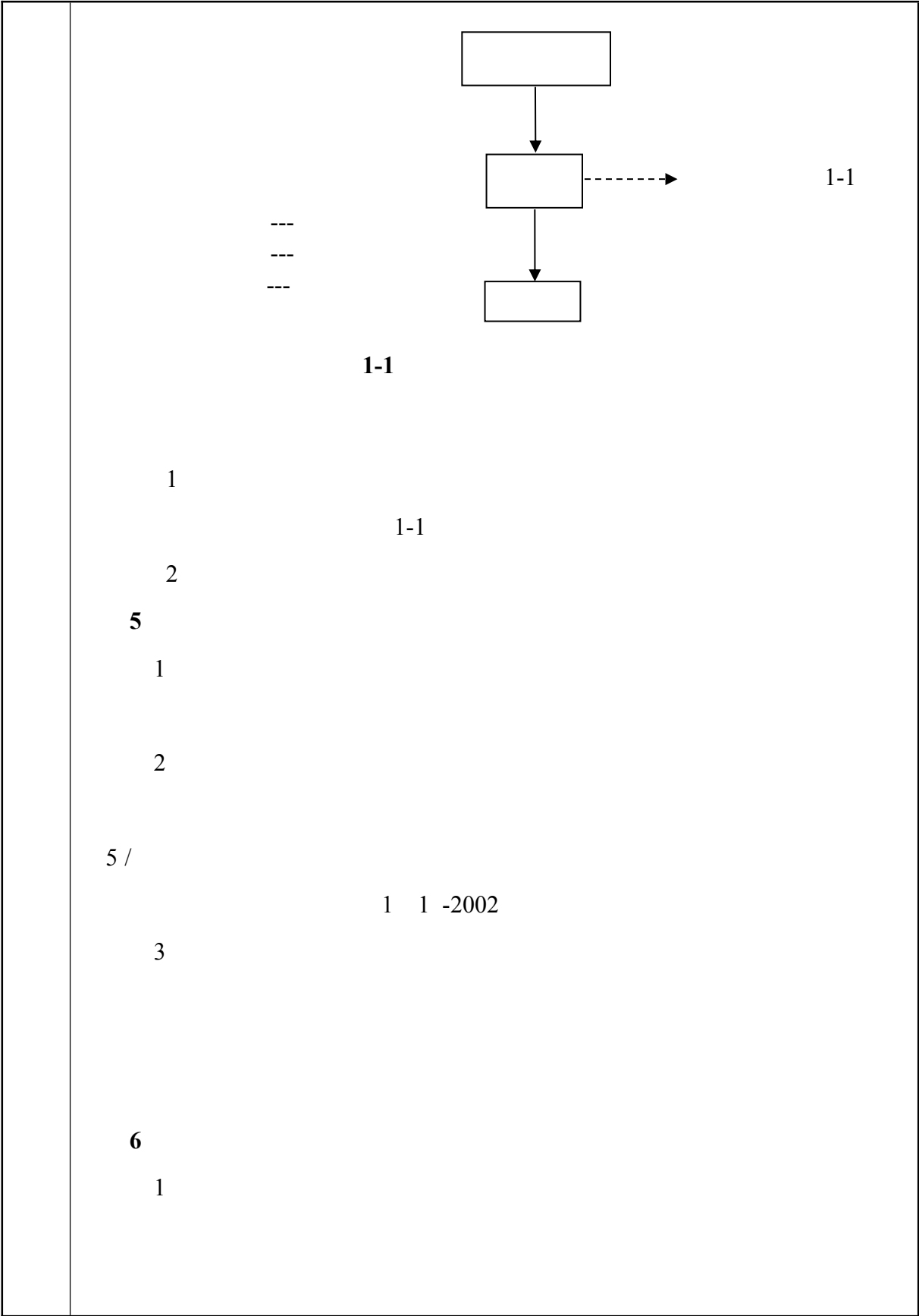
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| | 201 | 7.47 | 5. 6 | 21 | 4.7 | 0.0021 | 0. 2 | 0.21 | 0.04 | 0.005 | 0.03 | |
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| | | | | 0.144 | 0.126 | 0.10 | 0.01 | | |
| | | | | 0.10 | 0.104 | 0.072 | 0.004 | | |
| | | | | 0.00 | 0.007 | 0.00 | 0.002 | | |
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| | | 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 |
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| | (³ /h) | | (^g / ³) | (g/h) | (/a) | | (%) | (^g / ³) | (g/h) | /a | () |
| 1# | 5000 | | 72.33 | 0.364 | 0.74 | | 0 | 7.23 | 0.036 | 0.07 | 15 |
| <p>2-1</p> <p>1 0 200</p> <p>360.1 /</p> <p>2 2</p> <p>1</p> <p>0.71 /</p> <p>2.70 / -</p> <p>2400</p> | | | | | | | | | | | |

| | | | | | | | |
|----------|---|------|---------------------|------------|---------|----------------|------------|
| | | | | | | | |
| | + | | | | | | 0% |
| | | 0% | 5000 ³ / | 15 | | | |
| | | | 0.74/ | | 72.33 | / ³ | |
| 0.364 | / | | | | | | 0.07/ |
| | | 7.23 | / ³ | 0.036 | / | | |
| | | | | | | 31572-2015 | 5 |
| 2 | | | | | | | |
| | | | | 4-2 | | | |
| | | | 4-2 | | | | |
| | | | / | | | | |
| | | | /a | | | | g/h |
| | | | 0.07 | | 20 | 45 | 0.0405 |
| | | | | | | | |
| | | | | | | | 10% |
| | | | | 0.07/ | | | 0.0405/ |
| | | | | | | | 31572-2015 |
| 5 | | | | | | | |
| | | 37 | 22-201 | | | | |
| | | | | 31572-2015 | | | |
| 3 | | | | | | | |
| | | | - | | 2.2-201 | | |
| | | | | | | | 50% |
| | | | | | | | |
| | | | | 4-3 | | | |

4-3

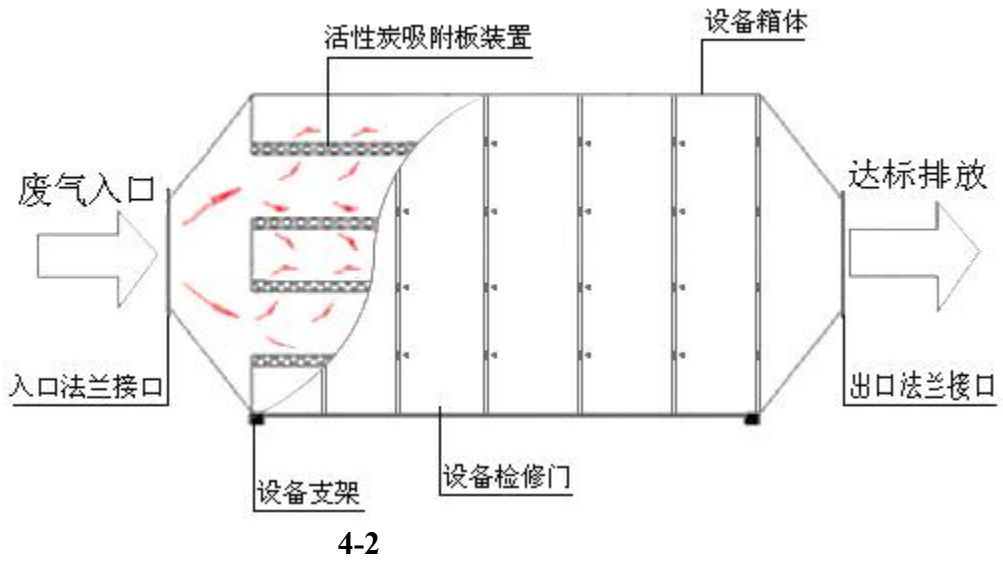
500 1 10-10
700 2300 ^{2/}

50

0%

0%

4-2



4-4

| | |
|-------------------------|-------------|
| | 5000 |
| ^{3/h} | 300*250*100 |
| | 12 40 |
| c ^{3/g} | 0. 1 |
| | 5% |
| (^{2/g}) | 1000 1500 |
| | 10 |
| | 1 |

| g | 30 |
|------|-------|
| | 0.3 / |
| 1100 | |
| 2 | |

4-5

4-5

| | | g/ ³ | g/h | g/ ³ | 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

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|--|--|------|----------------|--|
| | | | | |
| | | 2000 | / ³ | |

- (2.2-201) 5.3

- 2.2-201

4-7

4-7

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| | | | 10% |
| | | 1% | 10% |
| | | | 1% |

| | | | | | | | | | | | |
|------------|---|----------|-------|--|-----|-----|-----|-----|--------|--------|-------------|
| | 10% | | | | | | | | 10% | | |
| | $P_i = \frac{C_i}{C_{0i}} \times 100\%$ | | | | | | | | | | |
| | % | | | | | | | | | | |
| | / 3 | | | | | | | | | | |
| 0 | / 3 | | | | | | | | | | |
| 2 | 4- | | | | | | | | | | |
| 4-8 | | | | | | | | | | | |
| | () | | | | | | | | | | |
| | X | Y | | | () | () | () | () | (³/h) | | |
| 1# | 666 53.5 | 3772 | 0. 4 | | 0 | 15 | 0.5 | 20 | 5000 | | 0.03 6 / |
| 4-9 | | | | | | | | | | | |
| | () | | | | | | | | | | |
| | X | Y | | | () | () | () | | | | |
| | 672137.73 | 377 | 1 . 7 | | 0 | 45 | 20 | | | 0.0405 | / |
| 3 | 4-10 | | | | | | | | | | |
| / | | | | | | | | | | | |
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10%

4-11

| | | |
|--|----|-----|
| | | |
| | | 10% |
| | 1% | 10% |
| | | 1% |

4-12

| | | | Kg/h | g/ 3 | Pi % | g/ 3 | D10%() |
|--|----|--|-------------|-------------|-------------|-------------|----------------|
| | 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

| | | | | | | | |
|---|--|--|--|-----------|------------|-----|-------|
| 1 | | | | | 31572-2015 | 4.0 | 0.0 7 |
| | | | | 0.0 7 | | | |
| 4-15 | | | | | | | |
| | | | | <i>/a</i> | | | |
| 1 | | | | | 0.1 4 | | |
| 6 | | | | | | | |
| | | | | - | 2.2-201 | | |
| <div style="display: flex; flex-direction: column; justify-content: center; align-items: center;"> <div style="margin-bottom: 20px;">31572-2015</div> <div style="margin-bottom: 20px;">7</div> <div style="margin-bottom: 20px;">/ 3 4 -2020</div> <div style="margin-bottom: 20px;"> $\frac{Q_c}{C_m} = \frac{1}{A}(BL^c + 0.25r^2)^{0.50} L^D$ </div> <div style="margin-bottom: 20px;">-- / 3</div> <div style="margin-bottom: 20px;">-- /</div> <div style="margin-bottom: 20px;">--</div> <div style="margin-bottom: 20px;">--</div> <div style="margin-bottom: 20px;">--</div> <div style="margin-bottom: 20px;">/</div> </div> | | | | | | | |

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

9

31572-2015

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31572-2015

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50 / *

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2

5^{3/}

6.³

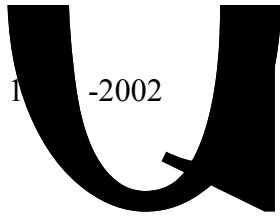
/ 50102-2014

4-1

4-19

| ^{3/h} | | | | | | | | % | |
|----------------|--------|--|----|-------|-------|--------|--------|--------|--------|
| | 5 | | 15 | 40 | | 25 | | | 0.05 |
| 1/ | | | | -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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| | 1/ | | |
| | 3/ | | |
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| | 4-1 | | 15500 3/ |
| | 0.12 3/ | 0.0025 3/ | 0.1225 3/ |
| | 3100 | 37.75 3/ | 1.23 3/ |
| 2 | | | |
| 1 | | | /2.3-201 |
| | 4-20 | | |
| | 4-20 | | |
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200 /

3- 25 /

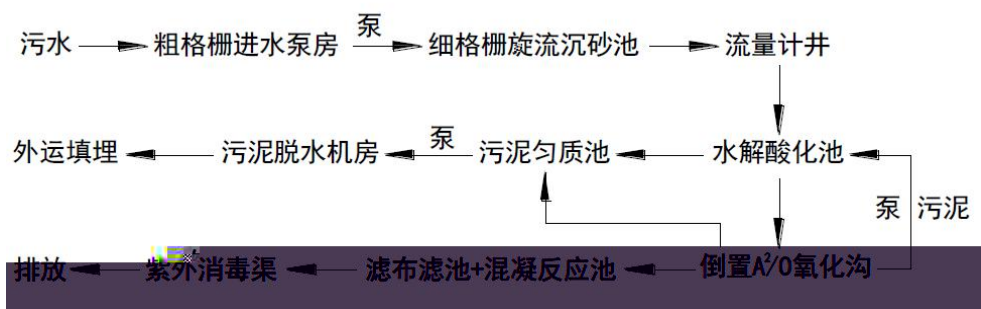
3 /

30 /

3

3

4.



4-4

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7. 3/

7 7. 3/

5.1 3/

4 0 3/ 1.6 3/

4-21

| /a | g/ L | /a | g/L | /a | g/L | /a |
|-----------|-----------------|-----------|------------|-----------|------------|-----------|
| | 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

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

| | | |
|-----------|------|---------------|
| | 3 | 4. |
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| 4 | | |
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| 1 1 -2002 | | |
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| | 4-25 | |

n "

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

()

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

()

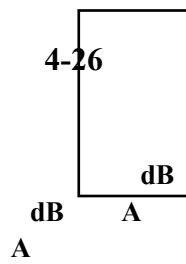
()

4

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

0

4-26



dB
A

dB
A

dB
A

dB
A

dB
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

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4-27

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| | | | | | | |
| | | | | | dB(A) | dB(A) |
| | 0 -17 | 1 -21 | | | 65 | 55 |
| | | | | | | 1 / |

4

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

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10²

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1 5 -2001

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4 1.462 100 4

15

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6²

10²

3

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

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4-36

| E | P | | | |
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| | P1 | P2 | P3 | P4 |
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$$Q = \frac{q_1}{Q_1} + \frac{q_2}{Q_2} + \dots + \frac{q_n}{Q_n}$$

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| | i | Qi | | i/Qi |
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| | / | | / | 0.02 24 |

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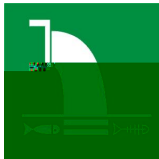



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5-1

5-1

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| | -01 | | | | |
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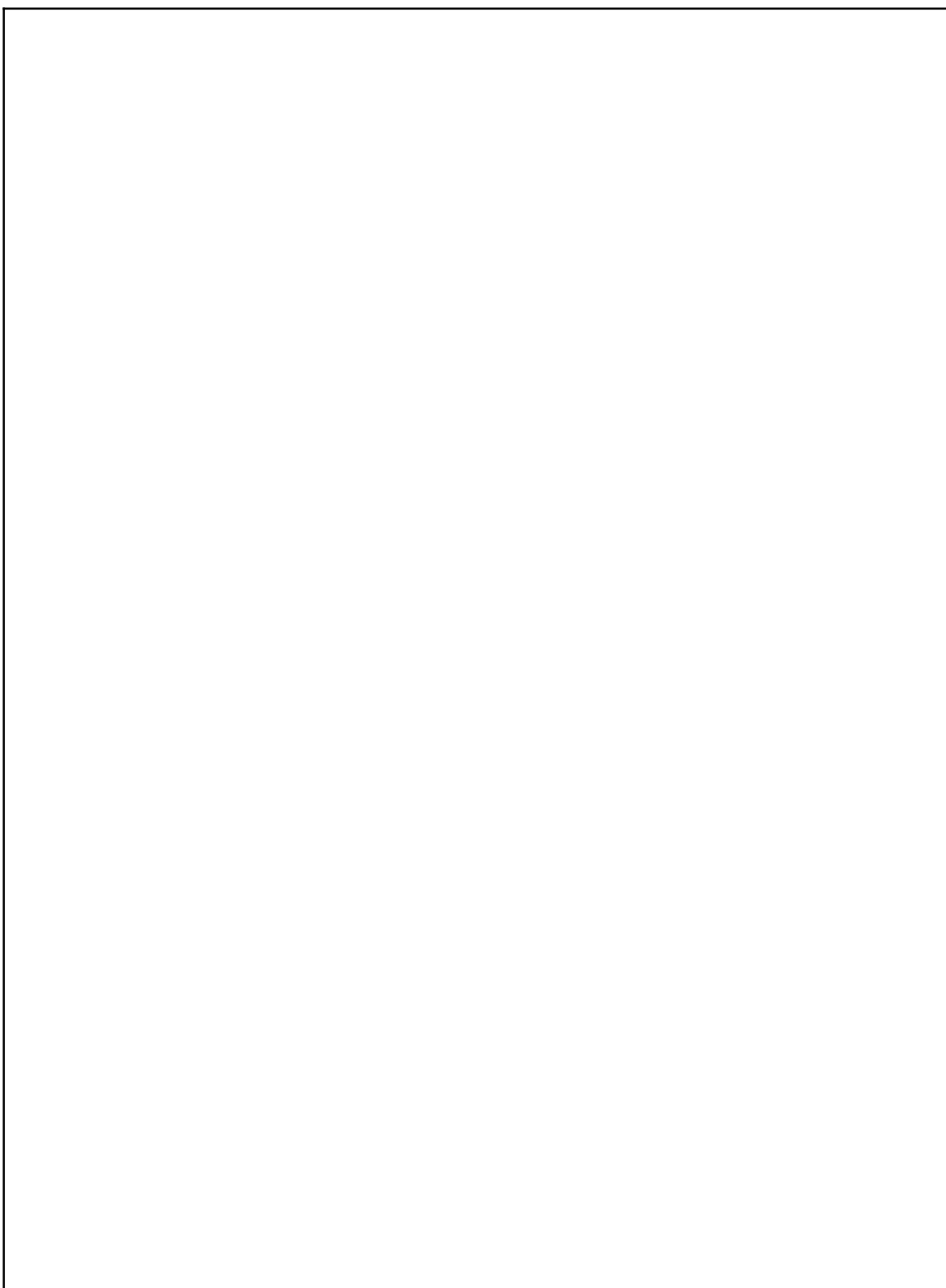
5-2

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| | | | 5000 ^{3/} + | 31572-2015 | 6 |
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| | | | 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 / | |
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| | | | 0.0 6 / | 3- 0.012 / | 0.0014 / |
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| | | | | | | | | |
| | | 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 |

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