

---

B BB D

---

DH ~~A~~EB<sup>B</sup>

CAC

~~A~~CBF~~D~~A~~F~~G

BC > G I GB

---

A B BA H BE H  
 BF H H H  
 X AA C AB  
 F AF  
 S A =SD B BB C AF  
 E BDE= BDF= BD=  
 BD= BD= BD= B= D=  
 D= B BA  
 AA B BA AB B D H  
 AI cBD B BB  
 C AF CC  
 cE cF cG  
 cH cBD cCC  
 AC > E  
 CI EI FG BC  
 FE E AH  
 B >  
 D=  
 CC AAB BC GG  
 c AG BDF= BD=  
 cE  
 cBD 0  
 TRDD Ad0A B > AB B



B BA AA C BF  
 FB DH CBG  
 D= C  
 C X D=  
 B BA AB AG AH AB  
 E A F  
 G AC  
 B G B C C E  
 I AG  
 >C BCEGE E  
 HAFHEF<sup>B</sup>  
 HAFHEF<sup>C</sup> DEDG<sup>A</sup> A<sup>B</sup>  
 DEDG<sup>A</sup> A<sup>C</sup> AADG<sup>F</sup> F<sup>B</sup> AADG<sup>F</sup> F<sup>C</sup>  
 BDGC<sup>EI</sup> B<sup>B</sup> BDGC<sup>EI</sup> C<sup>C</sup>  
 C hg A hg C  
 D= BEACB<sup>A</sup> A<sup>B</sup>  
 BFB DFB CCG  
 Yle R[  
 XZBE<sup>C</sup>B A  
 B B rfc  
 0 A TRDD Ad0A B>A=

---

D=

D=

A<sup>F</sup>

A

D=

0

D=

HAFHEF<sup>B</sup>

HAFHEF<sup>C</sup>

DEGHA<sup>B</sup>

DEGHA<sup>C</sup>

AADG>F<sup>B</sup>

AADG>F<sup>C</sup>

BDGC<EI<sup>B</sup>

BDGC<EI<sup>C</sup>

---

00 ..... A  
..... Y  
..... A  
AA ..... A  
AB

---

<del>CBA</del>	.....	B
<del>CBB</del>	.....	BC
<del>CBC</del>	.....	BD
<del>CBD</del>	.....	BF
C <del>C</del>	.....	BG
<del>CCA</del>	.....	BG
<del>CCB</del>	.....	BI
C <del>D</del>	.....	C
<del>CDA</del>	.....	C
<del>CDB</del>	.....	C
C <del>E</del>	.....	CA
C <del>F</del>	.....	CB
<del>CF<del>A</del></del>	.....	CB
<del>CF<del>B</del></del>	.....	CC
	.....	CD
D <del>A</del>	.....	CD
D <del>B</del>	.....	CF
<del>DB<del>A</del></del>	.....	CF
<del>DB<del>B</del></del>	.....	CF
D <del>C</del>	.....	CF
<del>D<del>C</del><del>A</del></del>	.....	CF
<del>D<del>C</del><del>B</del></del>	.....	CG
D <del>D</del>	.....	CH
<del>DD<del>A</del></del>	.....	CH
<del>DD<del>B</del></del>	.....	CI
<del>DD<del>C</del></del>	.....	DD
<del>DD<del>D</del></del>	.....	DF
D <del>E</del>	.....	DF
D <del>F</del>	.....	DG

---

<del>DF</del> A	.....	DG
D <del>F</del> B	.....	DG
DG	.....	EB
D <del>G</del> A	.....	EB
D <del>G</del> B	.....	EC
D <del>G</del> C	.....	ED
DH	.....	EE
	.....	EF
E <del>A</del>	.....	EF
E <del>A</del> A	.....	EF
E <del>A</del> B	.....	EI
E <del>B</del>	.....	EI
E <del>B</del> A	.....	EI
E <del>B</del> B	.....	F
	.....	FB
F <del>A</del>	.....	FB
F <del>B</del>	.....	FC





---

B AH H

B BA F

cH cE cF cG  
cCC  
g B D= g C D=  
g H B BA  
AA

---

## 1.2

### 1.2.1

B		B A A A	
C			B AB
AD			
D			B AC G
E			
	B AD FF		
F		B AF CA	
G		B AF	DB
H			B AG C



F  
 B AD AB  
 G  
 B AE AAE  
 H B AF BF  
 I B AG AC  
 A  
 B AG AAE  
 AA  
 B AH BF  
 AB B AH AA  
 BI  
 AC B AI  
 B AI D B AI F AC  
 AD  
 B B C E

**1.2.3**

A 0 WR CFF =  
 B AH  
 B WR d ADHDB AG  
 C XZBE>AB AI  
 D XZBE>B AI  
 E XZBE>C B AI  
 F 0 A TRDD Ad0  
 A B>AB B  
 G 0 C TRDD Ad0A B>C B B  
 H 0 D

---

TRDD Ad0A BDB B

I XZd AFFB D

A XZdAFDB B

AA XZA A=B A

AB WRE B=BA A B I

AC L N D

B A GG

AD B AD

AA

AE

B AH AC

AF B AG GB

AG

AH WRE ACGB AA

A

B B FG

B

B B FB

BA L

N B A FC

BB 0 E

TRDD Ad0A BEB BA

## 1.2.4

A

B

---

### 1.3

### 1.4

DH ABDEO<sup>B</sup>

### 1.5

XZBE>AB AI

XZBE>B AI

B AI

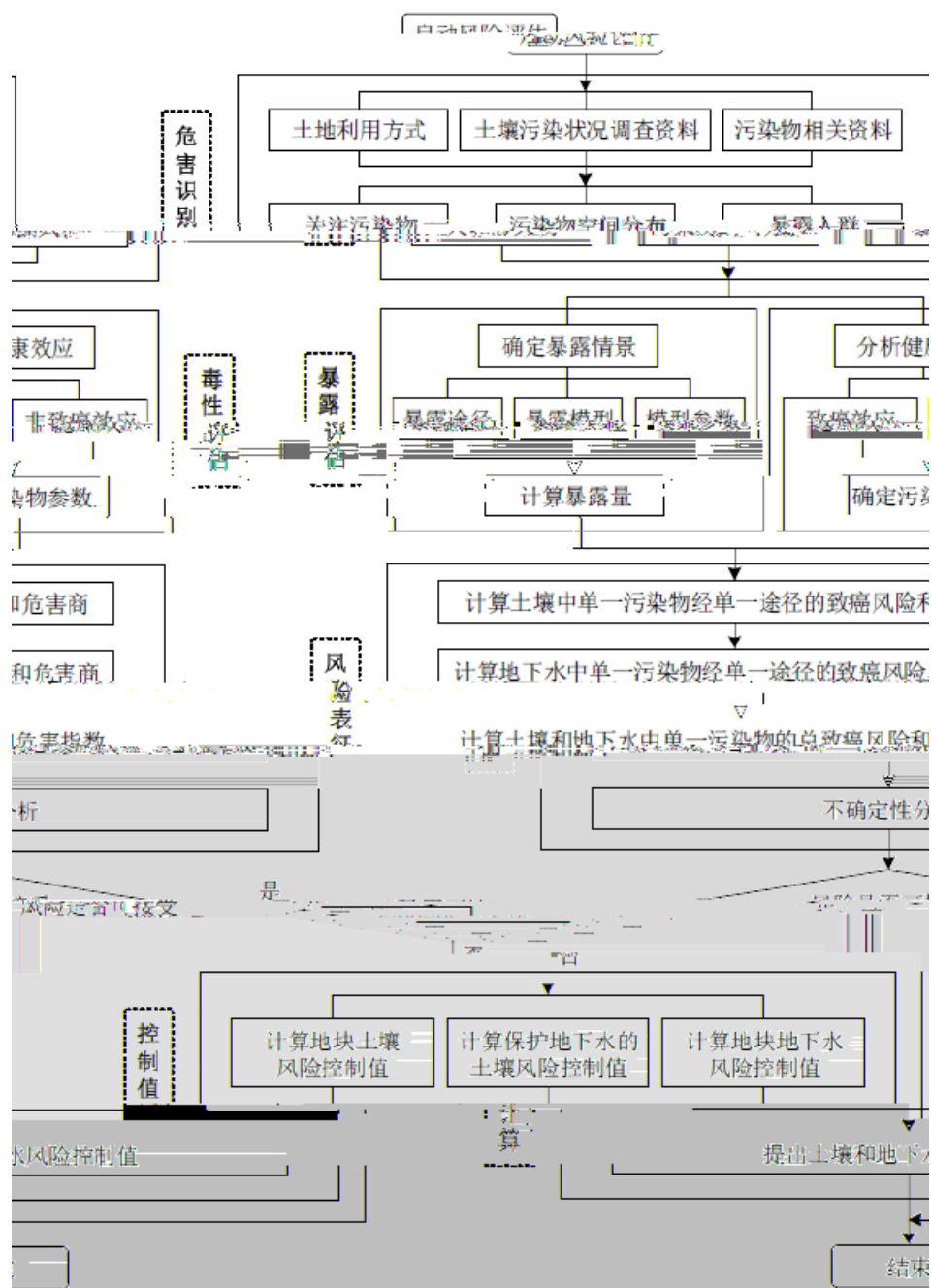
A

B

C

D

E



1.5-1

---

## 2.1

### 2.1.1

AAB EG AAD C

BB BF BC EF

BC C BC AF

AAC AD AAC BC 0





$BI \subset S$        $A \setminus$        $A \setminus BE$   
 DEG      H  
 $A \setminus E$       F      B H  
**2.1.2.2**

C  
 $\setminus I$   
 BE  
 G  
 D

E

$D I <$        $A \setminus A H$   
**2.1.2.3**

---

2.1.2.4

B BB A

bd[ T

W

B A AICE>AB

GF5 F>A5 F>B5 F>H5

AED A >G5 CIGBG

A >A5 AECF>CA F>H5

>AIB >EIGI >D WT ECB5 BADA

WT AACB

B B B HF>C B B







C

J

>

A

D

EE

>

F

D DE

B

>

---

ED

C

>

< CD CE

AA

AC

**2.1.3.2**

$V = DI = kABm$

[ B

---

## 2.2

### 2.2.1

AC

AC

E

A FH AA =A FI

A FI

ACF

A HB

A

A HC

A

---

$B \wedge \neg B \rightarrow A$

$B \wedge A$

## 2.2.2

$B \wedge A$

## 2.2.3

### 2.2.3.1

$\neg A$

$\neg A$

$a$

$Z$

$A$

$\neg B$

$B \wedge C \rightarrow 0$

$B \rightarrow 0$

$\neg H \rightarrow$

$\neg B$

$C$



---

DF 0

F H 0

### 2.2.3.2

~~c<sup>A</sup>=A c<sup>A</sup>=B c<sup>A</sup>=C c<sup>C</sup>=A c<sup>C</sup>=B h<sup>e</sup>G i<sup>B</sup>D~~

---

## 2.2.5

AA

## 2.2.6

E 0

## 3.1

-

B BA F H

A

AC

AC

E

A FH AA =A FI



---

B H

AG

AG  $\Rightarrow$  B

B

B AC

B AD

AA

C

$S_A \Rightarrow S_D$

$S_A \Rightarrow S_D$

$S_A \Rightarrow S_D$

## 3.2

### 3.2.1

1

0

8 9 8WRCFF  $\Rightarrow$  B AD ECA

A B

0

8 9 8WRCFF  $\Rightarrow$  B AD

$S_A \Rightarrow S_D$

0

WRCFF  $\Rightarrow$  B AH

---

0

WRCFF B AH Q>A

XZBEC=B A

B I A

0

WR d0ADHDHB AG

WRCEGI=B F

XZBEC=B A

1

DA

AAGA>E0<sup>B</sup>

ABI

FH

A

B

pH

GB36600-2018

1

45

C<sub>10</sub>-C<sub>40</sub>

2

DC

B

BB

B

D

F

3.2-3~4

3.2-1

	T CC	F BG	cE	= E
CC0			B	0

	T HFI	EF CE	cE	= E
EFB 0	cF	= E	HFI0	cG
CDCI	HDB0	cH	= E	A AE BCB
	AB	EI G DG	cAF	= E A AE
	HAH	FH 0	cCC	AHBC
FDC			D	

	T AB	‡	cE	= E
cH	A AE	cCC	AGBB	AB CB CI

>

	> H AHH	EGA	cBD
AH	AHD	A E0	
0			









cBD

CC

C

cE

cBD

0

TRDD Ad0A B>AB B

---

### 3.2.4

B DC B BB  
B H H

WRCFF =B AH

WR d0ADH HB AG Y

D= D B

---

### 3.3

#### 3.3.1

1

B BA AA B BA AB  
D 0<sup>B</sup> B 0 B 0 A  
A 0<sup>B</sup> A 0 A 0 A  
DE C H BFG

g B cF g C cDA g H cCE  
D=  
D= B  
D 0<sup>B</sup> B 0 B 0 A AD  
D=  
H D=  
FD 0<sup>B</sup> A  
H H hg Ahg B hg C X  
D=  
2

CBG X FI  
D= CC=A  
T IHC 0 AHGEO  
I AG EB5 BDEH  
E h CC=AC  
T BCH 0 AFHO

---

G	AC	EAE5	GC&C
	E	h CC=AC	
	T A0	GC&C	
	5		
	AC BAD 0	BI C&C	
	5		
	T AF0	BE0	
	5		
D=			C 0
	C		X
D=		CC&B	
		hg A hg C	D=

---

### 3.3.2

1

2021 12 17~18

A 0<sup>B</sup> A0 A0 A

AB F

2

B

~~CCB~~ ~~CC=A~~

AB AC ACO ED0

F



---

---

### 3.6

#### 3.6.1

##### 3.6.1.1

cE cF cG  
cH cBD cCC  
cE cBD  
0 TRDD Ad0A B>AB B  
I AG  
EB5 BCEH E h CC=  
AC G AC E>AE5  
GBCC E h CC=AC

##### 3.6.1.2

A  
H H C  
X D=  
B  
g B D=  
g C D= g H  
BEACB A<sup>B</sup>  
BFB DIB CCG





XZBEC=

B A

kB B nFC

0 A

TROD Ad0A B>AB B

## 4.1

-

HJ25.3-2019

0

AE=A

1

2

3

---

4

5

B A

XZBEC=

IEUBK

GB36600-2018

---

## 4.2

### 4.2.1

### 4.2.2

## 4.3

### 4.3.1

XZBECB AI

---

4.3.1.1

4.3.1.2

0

D=                      D                      C

0

XZBECB A

D=

4.3.2

XZBECB A

## 4.4

### 4.4.1







DD-E

YU <sub>b</sub> 0	8	9	=A	=A
] A 0		€		
TQ <sub>b</sub> 0	C	=A		
TQ <sub>b</sub> 0	C	=A		
YQ <sub>v</sub>				
0				
0				
UV <sub>y</sub> 0			=A	
UV <sub>y</sub> 0			=A	
UV 0			=A	
UV 0			=A	

DD-F

$$PISER_{nc} = \frac{PM_{10} \times DAIR_c \times ED_c \times PIAF \times (fspo \times EFO_c \times fspi \times EFL_c)}{BW_c \times AT_{nc}} \times 10^{-6}$$

DD-F

YU <sub>b</sub>	8	9	=A	=A
D				

DD-G

$$DAIR_c \times EFO_c \times ED_c \quad DAIR_c \times EEQ_c \times ED_c$$

DD-G

Y f U <sub>b</sub> A 0			=A	=A
f V 0				=C

---

DDH

$$IOVER_{nc1} = VF_{suroa} \times \frac{DAIR_c \times EFO_c \times ED_c}{BW_c \times AT_{nc}} \quad 000$$

DDH

Y f Ub A0

=A      =A

E

DDH

$$IOVER_{ca2} = VF_{suboa} \times \left( \frac{DAIR_c \times EFO_c \times ED_c}{BW_c \times AT_{ca}} + \frac{DAIR_a \times EFO_a \times ED_a}{BW_a \times AT_{ca}} \right)$$

DDH

Y f Ub B0

=A      =A

f V 0

€

DD=

A

Y f Ub B0

=A      =A

F

DD=AA

$$IOVER_{ca3} = VF_{gwoa} \times \left( \frac{DAIR_c \times EFO_c \times ED_c}{BW_c \times AT_{ca}} + \frac{DAIR_a \times EFO_a \times ED_a}{BW_a \times AT_{ca}} \right)$$

DD=AA

Y f Ub C0

=A      =A

f V 0      =C

AB

$$IOVER_{nc3} = VF_{gwoa} \times \frac{DAIR_c \times EFO_c \times ED_c}{BW_c \times AT_{nc}} \quad 0 \quad DD=AB$$

Y f Ub 0

=A      =A

G

DD=AC

$$IIVER_{nc1} = VF_{subia} \times \left( \frac{DAIR_c \times EFO_c \times ED_c}{BW_c \times AT_{nc}} + \frac{DAIR_a \times EFO_a \times ED_a}{BW_a \times AT_{na}} \right)$$

DD=AB

Yf Ub 0

=A      =A

f V 0      =C

DD=

AD

$$IIVER_{nc1} = VF_{subia} \times \frac{DAIR_c \times EFl_c \times ED_c}{BW_c \times AT_{nc}} \quad DD=AD$$

Yf Ub 0

=A      =A

H

DD=AE

$$IIVER_{ca2} = VF_{gwia} \times \left( \frac{DAIR_c \times EFI_c \times ED_c}{BW_c \times AT_{ca}} + \frac{DAIR_a \times EFI_a \times ED_a}{BW_a \times AT_{ca}} \right)$$

DD=AE

Yf Ub B0

=A =A

f V 0

=C

DD=

AF

$$IIVER_{nc2} = VF_{gwia} \times \frac{DAIR_c \times EFI_c \times ED_c}{BW_c \times AT_{nc}}$$

00000

DD=AF

Yf Ub B0

=A =A

### 4.4.3

XZBECB AI

YUe R[

IG 8Q ] 9

e cU Q

YUe R[

YUe R[

=G

D

A

YUe R[

---

Y<sub>e</sub> R[

1

IEUBK

IN

Y <sub>0</sub> MS 0 0g V 0 0Y 0 A

Y MS <sub>0</sub> 0 0 Ag V 0 0Y 0 B

Y MS 0 0f b0 C

Y MS 0 0Y 0 D

Y < Y T Y Y 0

S<sub>c</sub> S S S 0

c c

g V<sub>c</sub> 0

Y<sub>c</sub> Y 0

f b0

c

B

Y<sub>e</sub> R[ 0

C 5 D 5 E 5 F 5 B 5 DE5

UP<sub>poten</sub> = ABS<sub>diet</sub> × IN<sub>diet</sub> + ABS<sub>dust</sub> × IN<sub>dust</sub> + ABS<sub>soil</sub> × IN<sub>soil</sub> + ABS<sub>air</sub> × IN<sub>air</sub> +

ABS<sub>other</sub> × IN<sub>other</sub>

5

e

QRc QRc QRc QRc QRc

Y Y

e 00 QV0 0e 0 F

e dM A00 QV 0e A 0 00cQd 0 G



QV  
 cQd e 0  
 C  
 $\forall \epsilon \in \mathbb{R}^+ [ 0$

$\forall \epsilon \in \mathbb{R}^+ [ 0$

=

D

$\forall \epsilon \in \mathbb{R}^+ [ 0$

$\forall \epsilon \in \mathbb{R}^+ [ 0$

**4.4.4**

A

$\forall \epsilon \in \mathbb{R}^+ [ 0$

$\forall \epsilon \in \mathbb{R}^+ [ 0$

B

$\forall \epsilon \in \mathbb{R}^+ [ 0$

U Q

**4.5**

---

D=

D=

XZBEC=B AI XZBEC

OXZBEC

## 4.6

### 4.6.1

8S b 9

8Xa 9

XZBEC=B AI

kB B rfc0

A =0

A0

### 4.6.2

#### 4.6.2.1

S >A0

A

DF=A0

0M

0 0

0 0

000000

DF=A

0

0

=A

0

8 0

=A0

=A=A

B

DF=B0

		8 0	=A	=A		
C			DF=C			
	0	00	0 0	0 0	000000	DF=C
		8 0	=A	=A		
D						
DF=D						
	0	AM	A 0	0 0	00000	DF=D
E						



$$HQ_{ois} = \frac{OISER_{nc} \times C_{sur}}{RfD_o \times SAF} \quad 0000000 \quad DF=H$$

0

0

0

0

=0

=A

B

DF=H0

$$HQ_{dcs} = \frac{DCSER_{nc} \times C_{sur}}{RfD_d \times SAF} \quad 000000000 \quad DF=H$$

0

C

DF=A0

$$HQ_{pis} = \frac{PISER_{nc} \times C_{sur}}{RfD_i \times SAF} \quad 0000000 \quad DF=A$$

0

b T 0

0

=0

=A

D

DF=A0

$$HQ_{iov1} = \frac{IOVER_{nc1} \times C_{sur}}{RfD_i \times SAF} \quad 000000 \quad DF=AA$$

0

E

DF=AB0

$$HQ_{nc2} = \frac{IOVER_{nc2} \times C_{sub}}{RfD_i \times SAF} \quad 000000 \quad DF=AB$$

0

F

DF=AC0

$$HQ_{iiv1} = \frac{IIVER_{nc1} \times C_{sub}}{RfD_i \times SAF} \quad 0000000 \quad DF=AC$$

0

G

DF=AD

00 00 00 00 A00 B00 A DF=AD

0 8 9

S > 0

A

DF=AE0

000 C00 00 0 DF=AE

0

0

=A

B

DF=AF0

000 B00 00 0 DF=AF

0

C

DF=AG0

00 C00 B0000000000 DF=AG

8 9

S > 0

A

DF=

AH

$$HQ_{iov3} = \frac{IOVER_{nc3} \times C_{gw}}{RfD_i \times WAF} \quad 00000000 \quad DF=AH$$

0

B DF=  
A0

$$HQ_{iiv2} = \frac{IIVER_{nc2} \times C_{gw}}{RfD_i \times WAF} \quad 000000 \quad DF=A$$

0

C DF=B  
0000000000 DF=B  
8 9

4.6.2.2

YUe R[

A 0 YUe R[ DD0

4.6.2.3

DF=A DF=B0

A<sup>F</sup>

A

0YUe R[ 0

A

E5

BH DB

IHC





C

XZBECB AI

	b	c	0	0		e cU Q0
Y	0b	Y	0c			

D

kB B nfc0

XZBEC=

B A

E

F

### 4.7.2

H 5

---

~~HBCC5~~    ~~AGFC5~~

~~HHEE5~~    ~~AADE5~~

~~FDAF5~~    ~~CEHD5~~

### 4.7.3

~~XZBECB AI~~

B 5

~~DGAB~~

B 5

D

B 5

D

~~DGC~~

~~XZBECB AI~~

T T€

cb

A

B

h A

h B

B 5

B 5

---

## 4.8

A

B

D=

D=

---

## 5.1

XZBEDB A

XZBEC

### 5.1.1

XZBECB A

KB B nfc

0

A

TRDD Ad0A B AB B



5.1.1.1

~~U>A0~~

A

~~E>A0~~

$$RCVS_{ois} = \frac{ACR}{OISER_{ca} \times SF_o}$$

0000000

~~E>A~~

B

~~E>A0~~

$$RCVS_{dcs} = \frac{ACR}{DCSER_{ca} \times SF_d}$$

0000000

~~E>A~~

C

~~E>A0~~

~~$$RCVS_{ois} = \frac{ACR}{OISER_{ca} \times SF_o}$$~~

~~0000000~~

~~E>A~~

D

~~E>A0~~

$$RCVS_{iov1} = \frac{ACR}{IOVER_{ca1} \times SF_i}$$

000000

~~E>A~~

E

~~E>A0~~

$$RCVS_{iov2} = \frac{ACR}{IOVER_{ca2} \times SF_i}$$

000000

~~E>A~~

F

~~E>A0~~

$$RCVS_{iiv} = \frac{ACR}{IIVER_{ca1} \times SF_i}$$

0000000

~~E>A~~

G F0

~~E>A~~

G



---


$$HCVS_n = \frac{AHQ \times SAF}{\frac{OISER_{nc}}{RfD_o} + \frac{DCSER_{nc}}{RfD_d} + \frac{PISER_{nc} + IOVER_{nc1} + IOVER_{nc2} + IIVER_{nc1}}{RfD_i}}$$

~~EAD~~

### 5.1.1.2

~~XZBEB A~~

A

A<sup>F</sup>

### 5.1.2

~~XZBEB A~~

0

A

~~TRDD Ad0A BAB B~~

A

B

WRCCF 0

### 5.2

#### 5.2.1

---

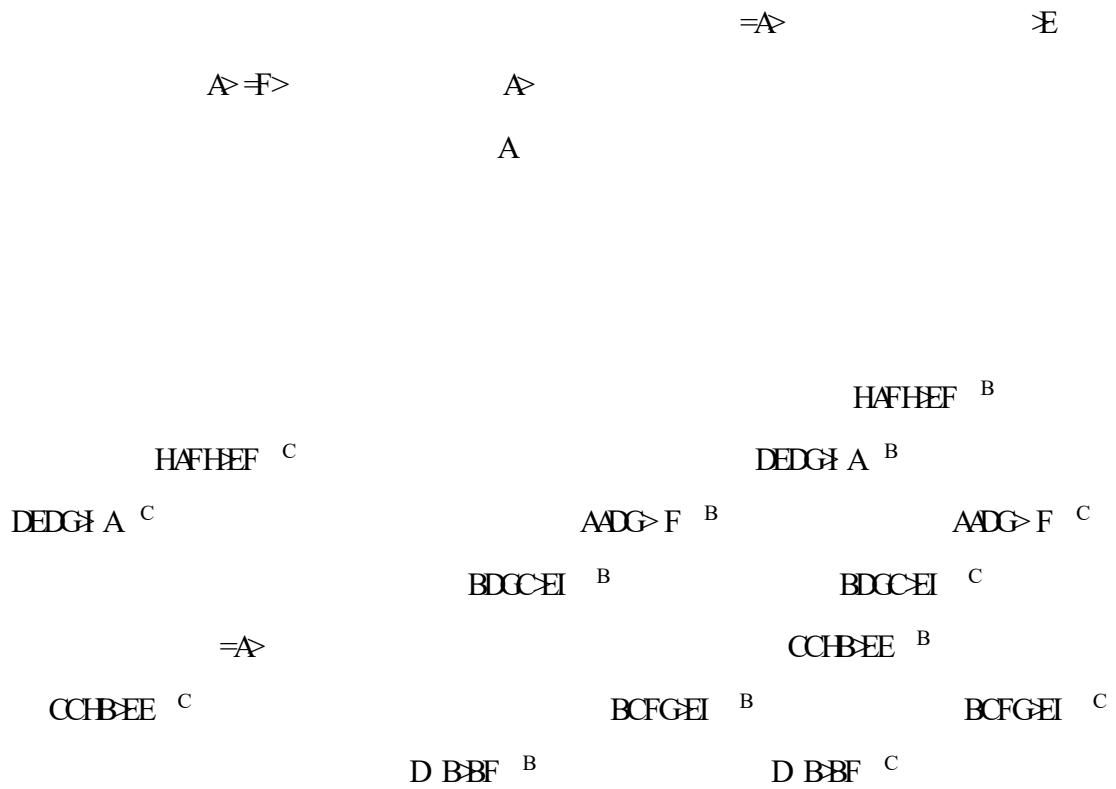
A

B

C

D

### 5.2.2



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<p>BGFI <del>HE</del> <sup>B</sup></p> <p>A <del>B</del> <sup>B</sup></p> <p>AGI F <del>BI</del> <sup>C</sup></p> <p>A AFG <sup>B</sup></p> <p>A CA <del>FB</del> <sup>B</sup></p> <p>B <del>C</del> <sup>C</sup></p> <p>ADI ACC <sup>C</sup></p> <p>I B <del>D</del> H <sup>B</sup></p> <p>EFF <del>CE</del> <sup>B</sup></p> <p>C <del>D</del> <sup>D</sup></p> <p>ABHC <del>FD</del> <sup>C</sup></p> <p>BADGE <sup>B</sup></p> <p>DH <del>AG</del> <sup>B</sup></p> <p>D <del>E</del> <sup>E</sup></p> <p>BADGE <sup>C</sup></p> <p>BADGE <sup>C</sup></p>	<p>BGFI <del>HE</del> <sup>C</sup></p> <p>AGI F <del>BI</del> <sup>B</sup></p> <p>ECC <sup>B</sup>                      ECC <sup>C</sup></p> <p>A AFG <sup>C</sup></p> <p>A CA <del>FB</del> <sup>C</sup></p> <p>ADI ACC <sup>B</sup></p> <p>EHF <del>F</del> <sup>B</sup>                      EHF <del>F</del> <sup>C</sup></p> <p>I B <del>D</del> H <sup>C</sup></p> <p>EFF <del>CE</del> <sup>C</sup></p> <p>ABHC <del>FD</del> <sup>B</sup></p> <p>A B <del>GB</del> <sup>B</sup>                      A B <del>GB</del> <sup>C</sup></p> <p>BADGE <sup>C</sup></p> <p>DH <del>AG</del> <sup>C</sup></p> <p>BADGE <sup>B</sup></p> <p>BADGE <sup>B</sup></p>
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## 6.1

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	HAFHÆF <sup>B</sup>		HAFHÆF <sup>C</sup>	
DEDG\A <sup>B</sup>		DEDG\A <sup>C</sup>		AADG>F <sup>B</sup>
	AADG>F <sup>C</sup>			BDGC\EI <sup>B</sup>
BDGC\EI <sup>C</sup>				

