

JYSçãÑÑ s ys-vÑÓ yÓ ÓÑÑ SéÑÑ Ó ú ú ý

- .ú Ý +±MÛKDj;"n Mût ¶ =ò>ÿA0j æ"

$$u \in \mathbb{E}^{\mathbb{B}^0} w (" * 1^{\mathbb{B}^0} w \bullet ' * 0 w_4, E g^0 w H = \{^{\mathbb{B}^0}$$

æž * /\$! A Ö È -A/£ ; p , Z ð /\$! A Ö È " * ä Fú%æ O'Ñ" 4"K' œ O! !! t̃
ë 0ž * /\$! A Ö È -A/£ ; p , Z ð @# @# Ì ÷ "xA - \ -A/£ m" 4"K' œ O! !! ø

...œ>@ÁÈ > Dj;"n Mût 1 4! #2M3 @ç { ELMÛK C!A Ö! T v8Mût u(' ÷ MÛK OE^ 2(• %og J[
i • wÖ) ' Mût UL< @#%# wMût • # ¶ =ò>ÿ; Mût DTEL!A €"n FÛ x K! +±' 6 2(w' p ; 3
- .ú : L->@xA Mût , t wò f > Mût ' YDý=yi • E =yMût L< @#%# ¶ =ò>ÿA0j +±Ý æ" ý
MÛKMût +±A0A Dð8 Z wU"x A Ä] Mût DTEL; A O'â MÛEL & Á 2(+±' -m7 wW*UA æ" w! Ò@Í
OÄ' Mût ¶ =ò>ÿ+±A0j FÛw N = Ì A O'14 É =• ; wUMût ¶ =ò>ÿA0T xž | ; wMÛKA O'â MÛEL
!] ð & Á +±Mût DTELg " @ çj =w M±x i " @ çj =ç | !ž. wM±x i ; ÈKri h 5D°a w' '
@j ; 3 ' æ" U /8Dý*UZ+± L ; ó-> T

œlj œ@ÁÈ j;"n Mût #2M3 @ç { ELMÛK L< @#%# A0A ¶ =ò>ÿ
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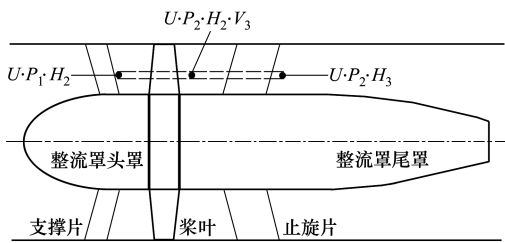
œœDj;"n Mût -" Á*U » È , M³ ; * !>3ü{ Z+±
ÓÍEœ(4 "EÖðx : 2(4 ² F +±A €KhÈ OE^ &y È
mL->@±/\$!A "n FÛ" Dèj EGMÛ& !A ÷ K' E +±,
+±%€ z UMût +±@# Ì ÷ E CO'@Kcâ " &Mût !A
Ö T6*+±A/£ " h>@6A O'1 • i , ,L 0.ú æ < %
i UuU0v "EÖðA O'1+±æ<-A/£ ³ : 9Mût • # Ç
Ó &!ª D"p Ö g ä j Mût u(' ÷ #t 8#eELÓ66 Ö
Ov i • +±ž ú +Äçv 0°V*U ¶ =òU/("x ä 7+±Á •
Ï lµ ÷ & 3i MÛEL 2(4 "xA ³ k { , Dj;"n Mût +±
, È ÷ ELÓ 3 0 "Ä] : 9 • # z Í >ÿ Ó & Á +±Mû
t u(' ÷ ELÓ f L • ü =v0v "EÖðMÛE€Z+± Kh
È i 2 "Fö*U+Û..0!/("x h , +±æ<-A/£ ³ H6 ý
k Mût +±^ EL! T + fœi 0v x° F 6 &"Mût +±"xA
4 ó " & ý k Dj;"n Mût +±A Ö T6*E =y ³ 2(4 +±"x
A "8ä ³ £ Dý=y 2 3i +èUuU0v 0°V*U • i N
! D°³ : 9 • # z \ >ÿ Ó & , 3ÖDj;"n Mût : 9 , >
+±"n g 3ó7 "£ Ä] z \ • # E C #t , ÈL • 1
e ÈL • +±, È 3 0 &f ± • ø't f F ^ EL! T+±4
@çXUü 0v "EÖð • i N +±æ< E C ý Q3ÖDj
"n Mût +±OY- 3Ö • # "- 3öY- 3Ö • # +±A Ö u('
ý t ³ . , t È Í ³ . %Mût • # +± ¶ =ò>ÿ \

Mût T6* E C+±Fú>@i • " { R 1 # " !>0v "œ Ö
EÖðA O'14 5 • i N +±æ<-A/£ ³ ý Mût : 9
• # ¶ =ò>ÿ & Á +±A Ö ÷ - " T "8ä ¶ =ò>ÿ &
!A Ö ÷ " T +±Ç T ž ú +Mø , 0v "EÖðA O'1
4 5 • i @ÐÄ+±æ<-A/£ ³ .ú • # ¶ =ò>ÿ & Á
+±ý- , g ç MÛDj;"n Mût +±² F "n g 1 !A Ö T6* "Ä
] ¶ =ò>ÿ È Í "Mût u(' u È Í ; ü <+±4 @çBçZ
W "0°V*U èÖs GDœ# "@ÐÄ³ ý K' E • Mût :
9 ¶ =ò>ÿ 8+±"n g! T "8ä Ä ; A O'1 i D°g h 5+±
Mût "n FÛ ÷ , t • i N 4 É %
{ ELMÛK - 7YFö*UDj;"n Mût %og Ö È #1/2" \$
BàA O'1â +±MÛEL 4 4 %MÛK ' = ; "- 7YGNÄU E
=yMût T6*AOA "8ä Ä - +±Mût • # ¶ =ò>ÿ" j
6*] - j wMÛK2(4 1 » - 3ü{ +±Dý=yä . %€
z U { ELMÛK : 9 ¶ =ò>ÿ & Á +±Mût T6*AOA Z "
; GDj;"n Mût ¶ =ò>ÿA0j "n/8 1" i "Dð8 , %€3n
)= "L->@xA Mût : 9 DTEL8 & Á +±"n FÛ & ÷ '
h , 3 0 "E 59@ÐÄÄ] Mût +±, t ÷ !A Ö u(' "
%og ¶ =ò>ÿA0j +±@ÐÄÄ' i • %8 \ Fö*U • i N
+±æ< M±x Mût ¶ =ò>ÿA0j ; +±T6* " & @ÐÄ+±
1è Ö>@O D°P " ' & » T g %±Mût 2(4 "ú" N

] @ÛÄ"5D#D°M4 A O'æ" ! J- %Y´ 4 5 { EL
 MüKDj;"nMüt @ÛÄ÷A0A 3üO" Ö) ' - .ú0- , ±±
 Müt ¶ =ò>ÿA0j æ" " & » 1F â W± f ±±MüK
 C " : L->@E =yMüt ' VL• ÷ ' VL•±±h ,
 "xA "ò Ê > Müt : 9DTEL8 & Á"nFü",! Ò4 ' MÜ
 t L<@ÛÄ%±±¶ =ò>ÿA0j æu " £EÖðÊKrDÿU Ä
] O'@î%

Öt)3 @ÛÄ)

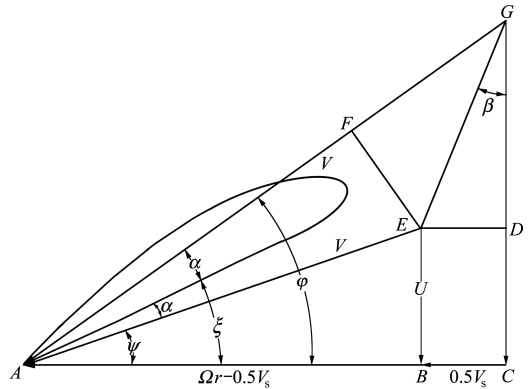
Öt Müt • # # fL• øD^T(• ; ¶ =ò>ÿ±± 2(
 & » { ELMüK² F ±±Dj;"nMüt 2(4 "g ýP Mü
 t u("UMüt @ÛÄ# "- 7YFð*U' /ø5) , @ÛÄ " E-
 z #K! Ý• S' ±±u(CE^ EÖE6 5)3±±Müt
 t ,! ± & ! ÷ DTELÖvï • "Ri ÔcMüt # CEL
 Ó EÖðE C#t • , ÷ • # fL•±±5) , SJ-Ôc
 ± > 1 z4 Ë Ó"j 6*] E-z Müt DyD^TZ 64! u
 Á & £!A ÖT6*±±ž ú ^{BKÖO}%Müt - 7Y^• # &
 ø't & ¶ "n4-1 C € ± = " + βm.g %



+ βcaMüt .g < +

+ βZ "A"nE ' • # z "Dj > ELÓ g U"Lt ,
 g P_B"h , g H_B +A"nEÖð• # ± Ì ; "Dj > ELÓ U
 : "Lt , P₀ ; h , H₀ È Í " £ aK¼6 ; # # øD^T
 æ> , %9±±A) 4 > ELÓ V_i +UEÖð• # 8#e±±
 ø't ; "A"n±±øD^TÖ6* = 3 Lt , ±±ËFü" £ Lt ,
 ; h , 3 X g P "H %

g È (Ý : 8ä Müt ± € ±± , t ÷ u(æ"59
 E =yMüt ¶ =ò>ÿ±±A0j ÷ T6*M±x "NÄu >@3 ½Mü
 t • # fL•ELÓ6 >ÿ • Z 1Mïi • ±±' 6 2("e
 >ñMüKDj;"nMüt # fL•±±ELÓ ± = " + 0m.g %Mü
 t Dy=yDð8 Z " Müt • # ± > z4 r ±± } 42(%
 ï 50"FDj > & > "A"n U # fL• ± ± ±±ELÓ6 >ÿ •
 g + 0 Z ±± ÄAEB % "A"n Dj > , % & EL Ó U =
 | EB | % "A"nEÖð• # ± Ì ; "G U # fL• ; æ Ö



+ 0æe >ñMüKDj;"nMüt # fL•±±ELÓ ± = +

*L • > ±±øD^TELÓ V_i "V_i ±±æ> ; #t ±±øD^Tæ>
 , %9 "UMüt /8 @ÛÄZ "- 7Y3 # fL•±±€] !A"n
 øD^TELÓ g ! "V_s "FIA"n • , % & ELÓ g Ωr -
 ! "V_i = | BC | %V g 5 ELÓ "V = | AE | % + Z "ψ g z
 E >ÿ "\ #t , % & 5 ELÓ ; øD^Tæ> ±±f >ÿ "ξ Ç v
 g ¶ =ò>ÿ "F • # h >ÿ α = ξ - ψ %

Müt U : 9 â 8Dÿ=y" # fL• €] ±±ELÓ 6
 >ÿ • 3 ...U / "z E >ÿ & h >ÿ E 0Wi • t Gp*L
 C "E ^ & Müt ±±T6*] 0ÄS ' Sè& %^ » 5) ,
 ±±#t È3i : K¼ "n±± C59f " ' 50; ~ 35)
 , ±±#t È3i ; øD^Tæ> ±±f >ÿ %og Müt T6*] 0Ä
 ±±i • x - %

+ 0Z " AG = # fL•±±#t È3i "α₁ g L#
 t È h >ÿ % € #t €] ±±5 ELÓ ; L#t È3i Fú5
 # "F 5 ELÓ V_i = | GA | Müt : & !A"n ± Ì " • # 8
 #eì : G Ô*L • > ±±A"nA) ELÓ "ELÓ 6 >ÿ • ±±
 B 3/(Ö] C %æF • , % & "A"n ELÓ 3 È T g Ωr
 = | CA | + & Á ±±Dj > ELÓ g U_i = | GC | %
 + Z

$$U = EB = GC - GD = \Omega r \dot{\phi} - \frac{! \cdot \varepsilon_s U}{\omega \beta} \quad \%80$$

ææ7 < 9K' Ωr "F 6

$$\lambda = \dot{\phi} - \frac{! \cdot \varepsilon_s \lambda}{\omega \beta} \quad \%90$$

< Z "λ g z E ! " \ Müt @ÛÄZ ±±Fü > @ð8 ï • "

$$\zeta v g \lambda = \frac{U}{\Omega r} \quad \%$$

f > Müt @ÛÄ)3 @ÛÄ" " Ä øD^T(• ε_s ; t
 È2(• C_A & z E >ÿ ψ x K! ±± 2(
 C_A = Ωr ε_s = ψ \quad \%00

< Z "σ g Ë Ó" =•• # , W#t SJ-; • #,%Eè ±± 0 W#t K!C xK!±± i %

& » Dý=y UMÜK² F ±±Dj"nMüt "£ %%%Ä E-z • #5) , 1 » ^ELä . " F £ t È2(• ; h>y ...U3ì T 2(

C_A = h =%o - α₁ o = h =%o - ψ o %xo
< Z "h g • # mE65) , t È2(• K¼h>y C±±3i T2(• "€ • # È ÓD° < " 35) , 8 %' /ø5) , " h f › & Á¹ 4!5) , ±±A O¹ • › -> Ç %€ • # È ÓD° T "F,%Eè#t ±±"n Öÿ • : 6* * * " F5) f L • : 6*>óg ' /ø5) , " #t ý È±±t È G , %¿ ±±ÿ "¶ u Á59ü < " " # h f › ; 5) , z E >y±± 2(3i E = y • %o

>®' /ø ε_s ¹ φ ±± 2("E L->®o? %xo < Z ±± =%o - ψ o "Λ + | FE | = V =%o - ψ o = GE ù • %o + β o = !. "V_s ù • %o + β o

ææF 6
$$\frac{= \%o - \psi o}{= \psi} = \frac{! . \varepsilon_s \dot{\cup} \cdot \%o + \beta o}{= \beta} \quad \%o$$

4 5 %o 2 %xo < 8 %o < " Ä
$$\varepsilon_s = \frac{0\dot{\cup} \cdot \phi \%o \psi / \lambda - \beta o}{\times h \sigma + = \phi} \quad \%o$$

*^ ' Ä] Müt • # ¶ =>yξ ; ø D T (• ε_s ±± 2(
$$\varepsilon_s = \frac{0\dot{\cup} \cdot \%o - \alpha_1 o \%o \psi \%o - \alpha_1 o / \lambda - \beta o}{\times h \sigma + = \%o - \alpha_1 o} \quad \%o$$
 Ö#± Müt "nFü , t ; ¶ =>y±± 2(UMüt @ @ ±± Dø8 Z "Müt ý È±± , t *U FÜß • < E = y • Dë " Ç v £ È , 2(• K ; , t μP & • #Dj>ELÓU &A "n ó Óρ ÷ Müt !A Öu(' η ±± 2(g

$$K = \frac{\mu P}{! . "pU^0 \eta} \quad \%o$$

< Z " • #Dj>ELÓU EÐðA "n € / "nFüQ Müt t w ± R ÷ • ï ! x_b @ÐÄÄ] %

$$U = \frac{Q}{R^0 \%o - x_b^0 o} \quad \%o$$

ææf › Müt @ @ ±± 3 @ Ç^ß "Müt ø D T (• ε_i ; z E ! λ ...U - 8 2(

$$K = \frac{Q_i}{\lambda} \quad \%o$$

f › %o 2 %ßo < " Ä] Müt , t &nFü; £ ¶

=>y x K!±± 2(
$$\frac{\mu P R^0 \%o - x_b^0 o}{Q \Omega r \eta} =$$

$$\frac{0\dot{\cup} \cdot \%o - \alpha_1 o \%o \psi \%o - \alpha_1 o / \frac{Q}{\Omega r R^0 \%o - x_b^0 o} - \psi o}{\times h \sigma + = \%o - \alpha_1 o} \quad \%o$$

ææMüt ý È±±6*Fü*U » x : MÜK C ±± , È æ ^ "MÜK±± , È æ ^ EÐðMÜK C æ ^ 2(• ε ÷ A O¹ â MÜELU_i @ÐÄÄ]

$$\mu P = ! . " \varepsilon \rho U_w^0 \quad \%o$$

ææ{ ELMÜK² ±±A "n - 7Y : 50; ~ , 4VT " £ A O¹ â ±±€ / "nFü@Ñ ; Müt Eææ±±€ / "nFü - 7! %4 5 %ßo ; %o < " Ä

$$\frac{Q R^0 \%o - x_b^0 o \varepsilon}{\Omega_i^0 \Omega r \eta} =$$

$$\frac{0\dot{\cup} \cdot \%o - \alpha_1 o \%o \psi \%o - \alpha_1 o / \frac{Q}{\Omega r R^0 \%o - x_b^0 o} - \psi o}{\times h \sigma + = \%o - \alpha_1 o} \quad \%o$$

ææ%ßxo < 4 ' ³ MÜK C æ ^ 2(• Müt u(' ; Müt "nFü&¶ =>y x K!±± 2("A_wgA O¹ â L • / % Müt ¶ =>y±±A0_i - 7Y& ÁMüt ±± - T D T E L " 4 5 MÜK ÷ Müt AQA 3üO¹ "Müt ¶ =>yA0_i z ; "MÜ "KA O¹ â MÜEL±± C i - 7YU - T MÜEL±± ß % ² "MÜK C 1 F â ±±A € L\$A' • C : T % - É MÜK "K € 4 ± Wp * L C "MÜK C ±± , È æ ^ 2(• ε UMüt ¶ =>yA0_i z ; { . - 7! % & » MÜ "K² F ±±Dj"nMüt "EÐðé3ó@ @ ±± * L - ÄMüt U @ @ ±± æ @ @ ±± % D Dý=y â ±±A Öu(' D°P "Müt t 8 \ ¶ =>yA0_i D° < r Ó " £ A0_i z ; & Á±±Müt t !A Öu(' η @Ñ - 7! " F2(• ε / η UMüt ¶ =>y A0_i z ; >óg : %

f › %ßxo < " 4 5 Müt ±± @ @ ±± É %w ± R & È Óσ & ï ! x_b &¶ =>yξ₁ &mE65) , ±±#t h>yα₁ & 3i T2(• h 0vo¹ MÜK ÷ Müt ±±Dý=y • › %Müt - T D T E L & Á±±>yELÓ. Q & A O¹ â L • / A_i & A O¹ â MÜEL U_i , & A O¹ â "nFüQ_i 0vo" @ÐÄ' Müt ¶ =>yA0_i z "MÜK æ ^ 2(• ; Müt u(' ±± i ε / η % ³ Müt t ¶ =>yA0_i ; - T D T E L & Á±±A O¹ â MÜELU_w & Q_B ÷ f › Müt J ø Dý=y' ! T @ÐÄ' ±±ε / η 0v ï • ' %ßxo < " !o' Müt ±± ¶ =>yξ_B "Müt ¶ =>

>ÿ+±A0j Fũ µξ = ξ_B - ξ₁ %

- ÉMût ¶ =ò>ÿA0j z ; " & Á+±MũK"K € 4
 ± p*L C % Ë ü / Ç â ² +±Khi 4~o • &Í =ò
 K_Ñ4~ & "nE€Í =ò"µ • 0v o"FMũK CE^ 2(• ε
 3 f "Mût U"K € f z ; Dý=y+±"nFü2(• & È
 2(• t G f "Mût +±A Ö u(' η ^ G ' 59p*L
 C %U ' .ú Ž # 8 "%&xo < Z+±2(• ε/η UMût
 ¶ =ò>ÿA0j z ; ^ 6* : 9 %µ & 7 E ò â "
 A MũK@ @Î# +±)3 @QCE^ 2(• " £ & "K € f ; +±
 CE^ 2(• E =yM±] "9 # E L- f > 3üO'] @Mût u
 (' +± CFü"&c; ° 3] OÄ+±ε/η ' %&xo < "@Î
 OÄMût ¶ =ò>ÿ+±A0j Fũ"s E .ú æ < +±Mût ¶ =ò>ÿ
 A0j Fũ 6* ; ÈKri ...U - Ç+±A " ...U G NE
 +±Dð8 %

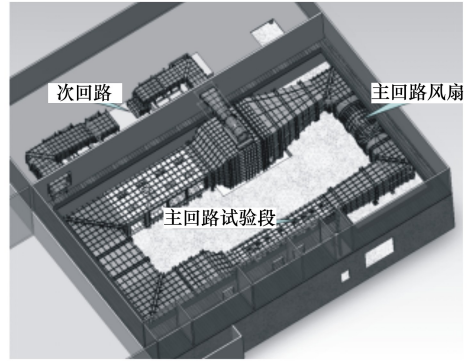
V*U' Mût ¶ =ò>ÿAOA æ" " z K' Mût '
 ÷ ' G WML•+±h , "xA "E 59CE~z - *U"x A
 mL-+±h , ç ã &x , OÍ ÷ *b } , È ~ ü K-0v"x A
 @ß ÷ "xA • "Dë] AOA , +±%

#‡ Á*UK ,

ý { ELMũK h C Mût AOA Dð8 Z "WE =yMù
 t ' ÷ ' h , +±"xA "Fô*U 7 E +±Mût ¶ =ò>ÿ
 A0j æ" "\$ Bà³ AOA >@o %

#Ž‡ MũK0- ø

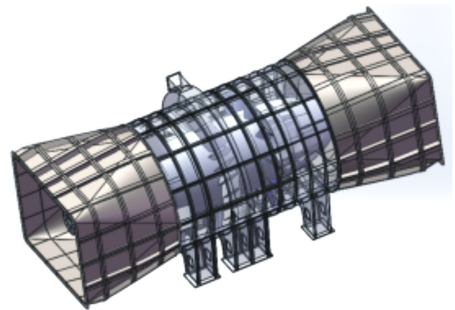
A { ELMũK - ò P o ' 0~& @ & ELDýÖ
 €0vMù /8A O¹-A/£ "CE ; x(Ü!a * ž 9 N "¤
 7Mù—E =y7f 7c ; "¤84 ±~ Mù /8A O¹-A/£ %
 MũK 3 g 0 W C "ü W C t Fz 6 , (+±Mût 2(
 4 "h CA O¹â ± %ê !P og] !Ož] "- P
 MÛELg !] ð "N CA O¹â ± %ê !P og Ož]
 ! ß] "- P MÛELg !] ð "MũK+±64! N , >í + %



+ œMũK 64! N , +

#Ž‡ Mût 0- ø

f > MũK!A Ö h € 0 m>@o "Mût â 04> UMù
 "Kh C 0Y- ý >ÿ â ; 0Y1 ý >ÿ â x K! "Mût ,! ±
 Ž] "hJ- ß] "• ï ! !Ž %Mût • # ß !t "Fô*U
 H5@ @5) , "• ø't ß@t "Fô*U ¶ ö öxxß"5) , "z
 \ ¾'t ; k \ ¾'t 3 X E6*U ¶ ö ö!!ß 1
 ¶ ö ö!!ß"5) , "• , 3 X g @¹ %Mût MËÇDTEL
 g !! çđ ~"& Á+±Mût • # # CO"ß • g !Ž "%
 g 7 , MũKDý=yì ("Fô*U e(< "Í |Mût @ @Îæ
 " ß×E =yMût • # & ø't +±A Ö @ @Î" Mût @ @Î
 %æ t g ß @êU@ @Î%æ / "nFüg x"!] ð "@ë
 @Î%æ Ö u(' g . %Mût â +±64! N , >í + x"
 • # +±@ @Îi • - =• ß mg %



+ xœMût 64! N , +

=> Ó‡ MũK h C Mût • # @ @Îi •

| z 4> | z 4> r ð] | SJ~c ð] | È Ó σ | ¶ =ò>ÿξ / %o | L#t È h>ÿα ₁ / %o |
|-------|------------|----------|-------|--------------|------------------------------|
| f F | "! | "0! | !Ž@ | xxž | q@ž |
| , > t | @R0ž | x " | !Ž" | !Ž | q@ž |
| CF | ß !! | x@ | !Ž x | 00ž | q@ž |

