

JYSçãÑÑs ys-VÑÓ yÓ ÓÑÑ SéÑÑ Óyüá y ' ,

' » - p "n Õ+±7WŞ .è ð "" 4) 5 OE^ N , ; u (' M±x

OSOEJ8^Bw{ { 5—^Bw7 . ^Bw* ' ‡⁰wE k g^B

%Ž-D G T " Õ È ; 6*#½“ K• "K, >->-¶ œ@!@+OŽŽ * 7Wp Õ È Ò c-A/£ m"!OEü JNœOßx! o

...œ@Ä ' 3 - .ú • L•50;~.è ð "" 2 1.ú OE^ • <+±4) 5 OE^ N , ±± /ø æ' W@# ' 3 ½.è ð
" e ' Ñ #D> # - , Ñ <D • Kda Ñ ' ' - • â U² ±±1EGnF # , 4 ± ÷ OE^ g)3 W
5 - p "n Õ)3 @ç X ' /ø.è ð "" +±a È OE^ N , æ / OE^ N , D> , - OE^ 1 g Ý OE^ N , w
3ð± ' - W6* L=• @ ß Wè ð "" h>@@@îi • ; "" u (' K!+±4) 5 OE^ N , ' » m' /ø ±±OE^ N
, E=y³ ý 7WŞ &ðæ è ð "" ±±T6*M±x-A/£ w£ 3 OE^ N , M±x4 É ; A O'• > è Õ , L • > E =y
3 &! -A/£ , L4 É=• ; Åô*UCE^ N , ±±u (' M±x i ; A , 7WŞ .è ð "" A O'• > ,%&A < »
OŽ. wU@@î â 8 w è Õ , L Ä] ±±è ð "" u (' ; A O'• > ,%A U xŽ. 2 wOE^ N , ±±M±x
u (' ,%D° è ÕM±x i wó-> TP » è Õæ' BŽ. w• ; m' /ø OE^ N , M±x u (' 1è Ó E » è Õæ
" W* L*U » ó-> ±±M±x.è ð "" @@Dð8±± %ou (' "

œ@ Ä@DÄu (' "n g "nFü L• T 3 ½
Z + 31" \$ ÅÆ Žœœœœ ([4 -. Äœœœœœ 0 4C\$ Åß!!!K@ %@!ß o!"K !@K

œœW' 7WŞ N=y• & Ý - P T6*7WŞ p Õ g ý
' 3 76* &Ü & u & T6*0v p , >@o 7WŞ &ðæ
.è ð "" %og 7WŞ p Õ g &ðæ Ò c 2(4 +±Fú@È!æ=ð
4) "£ %ou (' \ P T6*7WŞ &ðæ" Fú>@ŽFü 4
4 ß%U@@Kcâ 6* L ó->] M±x ' "" ±±T6* \
- M!± 6 Fú>@< v ±±A/£ A+MÁ%
, z.è ð "" T6*M±x - 7YFô*U3üO¹™ < &OE^
N , & è Õ • i N 1 .< 3ü4~4 @Üð0v æ" 8ä
°°%' » 3üO¹™ < ±±T6*M±x æ" 1è Ó { "µKè
' /ø T6* ; , 4 ±±±² U 5• % è Õ • i N
æ" 6* L ' /ø ² "n g ; C! T x K!±± 2 ("U - Ç
80! ² 6*M±x ')3 ±±T6*4 É °K°%s £ &-A/£
ç ..±±• i !o? 6* È>@oD°P " ' CFô*U è ÕE =y
.è ð "" E C±±• LD°J-": i » P u i ±] Ä ' i
• E C ; "" T6* %< 3ü4~4 " M±x "" ±±T6* ± 6 -
Ç±±1è Ó "°" s A æ" ÈBfTFüE.í ±±a È N , "
9 #.< 3ü4~4 DÄ' N <+±E6 &M±x 1è Ó ± 6 µ T
±±ž ú %OE^ N , ' /ø.è ð "" T6* ; 4 ± i • &

"n Õã . x K!+±k < CK½< 2 ("@DÄð8 ì ±P
u " ' U@@Kcâ e=ØU » .è ð "" ±±T6*M±x 1
E C @@î°* ² C ,% -A/£ ç ..lµ &.è ð "" ±±OE^
N , - , ³ TFü-A/£ %°* ² -A/£ ç ... /ø ±±OE^
^ N , h>@ÈBßüO¹™ < @îæ" & A O'• > 0v æ
" Kù°"g # & OE^ N , E=y0- C & • "£ U ' '
-m7 - , ³ .è ð "" ±±#D> E C @@î Kù°* C U
.è ð "" OE^ ' N æ• ÔFú" "" ±±T6*M±x ÷ G,
4 E C æ" -A/£ ß Kù°" £ E@ðÈ , O'@î³ ' » OE^
N , M±x.è ð "" T6*±± =yT^{ß°}%
7 E -A/£ Z m' /ø ±±OE^ N , GFô*U w)3 @ç
w3üO'+±±' N æ" 4g> 1 EGnF # ±±OE^ g)3 3
½" ') 7! OE^ N , @DÄ1è ÓD° { %g ' "@ç U
' /ø OE^ N , Z "3ó7! 3 ½³ "" ² "n Õ ,% +±a È
i • & È i • ÷ "" 1 EGnF # , • 'ã 1 ,
i • & "" u (' ±±ž ú "3 X ' /ø ³ !a È OE^ & lñ\$<
OE^ @> , - OE^ 1 g Ý OE^ ±±• " N , "U ' '
-m7 ' /ø - W6* L=• @.è ð "" h>@ ± i • ; .è ð

"" u(' K! 2(+±4) 5 OE^ N, %- ; Fô*U OE^ N, E=y³ ý , 7WŞ.è ð "" +±u(' M±x " £ ; A O¹ • › E=y³ &! O¹@i%

Ö†.è ð "" 4) 5 OE^ N,

.è ð "" +±h u(' 2 X!a È u(' η_d&æ/ u(' η_u&g Ý u(' η₁¹ D), - u(' η_o" h u(' \ 1 u(' +±..l %

ÖÖ†!a È OE^ N,

.è ð "" "nE€² !a È - OE^ • ! » - • & "n€"n ÖELÓ±± æâ

$$h_i = \lambda \times \frac{v^0 L}{Q_g D_{\text{at}}} \quad \%00$$

< Z "λ g!a È - OE^ 2(• "L g 0v u +±"nE€¬

Ó% D_{at} g €Fü!a È,! ± "D_{at} = x × $\frac{A}{C_x}$ "A g ÚL•L

/ "C_x g#¬• J¬%

Ö È OE^ Fô*U"n € È ")3 @ç mF OE^ +± • < E=y•g " £ • ! » mF OE^ 2(• &n €"n ÖELÓ±± æâ

$$h_i = \zeta \frac{v^0}{Q_g} \quad \%00$$

< Z "ζ g mF OE^ 2(• %

ßßœe ' â!a È OE^

' »!i /8 OE^ TM< ' /ø e ' â OE^ ; #D>E

"nELx K!+±* • 2(%

$$h_i = \zeta \frac{c_1^0}{Q_g} \quad \%00$$

< Z "ζ g!a È OE^ 2(• %

f › 3ê) e ' Ñ!a È OE^ 2(• ; L•/ ! $\frac{A_1}{A_s}$ +±

A O¹ • › 4 @Î 2(Ä.è ð "" e ' â +±OE^ 2(• ; L•/ ! x K!+± 2(g â

$$\zeta = ! \cdot \left(\frac{A_1}{A_s}\right)^0 \quad \%00$$

< Z "A₁ g "" #D>E L•/ "A_s g "" €E L•/ %

ßßœe#D>² !a È OE^

ßo #D>² +±a È - OE^ h_i

L G!i!i /8 OE^ Ä] #D>² "n Ö+±!a È -

OE^ â

$$\frac{h_i}{H_{\text{vd}}} = \lambda \times \frac{L}{D_{\text{at}}} \times \frac{W_{>}}{Q_g H_{\text{vd}}} \quad \%00$$

< Z "λ - OE^ 2(• £ g #D>"nE€v u J¬ Ó + D_{at} g #D> t €Fü!a È,! ± #W_> g t ,% &EL Ó #H_{vd} g T ö TM8 %

Fô*U.è ð "" h>® , i • 1 !a È i • 3 7 < Z +± FÜE =y , • % !a È - OE^ 2(• λ Fô*U • &•' Ö8} TM< "!a È - OE^ 2(• g L\$A' • 1 ,%&=•L•1Ä2 Ó+±* • %

$$\lambda = f \cdot \frac{W_{>}}{x} \cdot \frac{\Delta A_0}{\Delta A_0} = \frac{\beta}{x} \left[k \left(\frac{x \cdot 0}{Re} k \frac{Re}{\beta} + \frac{\Delta \tilde{A}}{\beta} \right) \right]^{-0} \%00$$

< Z "Re g "n ÖL\$A' • "Re = $\frac{W_{>} D_{\text{at}}}{\nu}$ "ν g "n €DýÖ Süt2(• ±Ä g ,%&=•L•1Ä2 Ó %

50;~ #t Ç Ó ç Q %•U+± t ,% &EL Ó TM

< g â

$$\left(\frac{W_{>}}{u_0} \right)^0 = \phi_0^0 \left(\frac{\xi_{\beta}}{A'_0} + \xi_0 \right)^0 + \frac{\beta}{x} \left(\frac{D_{\beta}}{D_0} + \beta - \psi_0 \right)^0 \quad \%00$$

< Z "φ₀ g #D>' "nFü2(• "ξ_β g #t "" E # 't ç Q2(• "ξ₀ g #t "" ' #t ç Q2(• "D_β g #D>E ,! ± "D₀ g #D>' ,! ± "A'_β g 50;~ ç Q %•U+±#D>E Dđ'n WL•L•/ "A'₀ g 50;~ ç Q %•U +±#D>' Dđ'n WL•L•/ "ψ₀ g #D>' 1 TM8 2(• %

#D>€Fü!a È,! ± D_{at} +±T < K!m #D>"nE€ : Ú C" ' #D>E & 1 ZK! z 4) @DÄa È €Fü! ± " &c; í p t 8ä Ä #D>,! ± g %%*^ €

Fü!a È,! ± +±Ç v D_{at} = $\frac{x \cdot 1}{C_x}$ %£ ZL•/ A. g - ,! » #D>² "ß"n ,% &EL Ó æ > 7 Dđ'n ÚL•+±0v u L• / "C_x = • ' Dđ'n WL• & Á +±#¬• J¬%

Fô*Uí p t +±æ" Ä] #D> t €Fü!a È,! ± D_{at} â

$$D_{\text{at}} = \frac{D_{\text{at}} + D_{\text{at}} + D_{\text{at}}}{x} \quad \%00$$

< Z "D_{at} g #D>E 1 €Fü!a È,! ± "D_{at} g #D> "nE€ZK! z 4) +±€Fü!a È,! ± "D_{at} g #D>' 1 €Fü!a È,! ± %

f › D_iL "nE€¬Ó ; #t S J¬h_{β-0} +± 2(Ä] #D>#t S J¬D_{pi} g â

$$L) \frac{h_{\beta-0}}{\beta} \quad \%00$$

< Z "h_{β-0} g #t S J¬β_{at} g #t # , +±¶ k >ý "OE

#'t ++S3i>y %

3 %oo ~ %oo <!o? ++• i '] TM< %oo

Z" 8äÄ & Á , i • 1 "n Ö Ž # 8 #D>² !a

È CE^ ++• i %

0o #D>² ++a È Ö È CE^ h ,

.è ð "" #D>² !a È Ö È CE^ h_d g ß (CE^ h_d & k E&CE^ h , &- M CE^ h_4w¹ 5) , CE^ h_ö x ¹ "

h_d = h_d + h , + h_4w + h_ö %! o

œœß (CE^ ±±T < ; ß (ELÓ±± æ = • ! "

h_d = ζ_d \frac{W_{üß}^0}{Q} %ßo

< Z "ζ_d g ß (CE^ 2(• "W_{üß} g ß (ELÓ %

k E&CE^ ; h"n,% ç #SEM= ±±CE^ " Fô*U mF CE^ TM<E =y=•.g â

h , = ζ , \frac{c_{10}^0}{Q} %ßoo

< Z "ζ , g k E&CE^ 2(• "c_{m0} = \frac{Q}{A_0} "Q g € / "nFü"

A_0 g #D>' "nE€ÚL•L•/ %

Fô*U"n € È " Z# = - Ôî mF CE^ 2(•] OÄ TM< â

h_{4w} = ζ_{4w} \frac{W_{>}^0}{Q} %ß o

ζ_{4w} = \frac{\lambda}{\left(\frac{\alpha}{0}\right)} \left[\beta - \left(\frac{A_\beta}{A_0}\right) \right] + K \left(\beta - \frac{A_\beta}{A_0} \right) %ßxo

< Z "2(• K ±± i i 50=• ßE =yE6 "A_β "A_0 g "n E€ & Dŝ'n ÚL•L•/ "α , g €Fü- M>y %

= Ö† 2(• K ±± i

α , Ø%o	ß!	ß0	ß"	0!	0"
K	!žx	!ž	!ž0	!ž!	!ž0

V*U5) , KhÈ Ô*L±±ì (' ; # , CE^ EM= ±±ì (' ,%0v" Ä5) , KhÈ CE^ g â

h_{,ö} = C_d \left(\frac{L}{t} \right) \frac{\left(\frac{\xi_\beta}{A'_\beta} + \xi_0 \right)^0 + \left(\beta - \psi_0 + \frac{D_\beta}{D_0} \right)^0}{\psi_0 = \beta} \times H_{wd} %ß" o

< Z "5) , KhÈ 2(• C_ö à »5) , , i • &n Ö ß>y¹ "n Öã . L\$A' • "t g(Ü D # 2±±2C "ß_> g #'t ¶ =ò>y t i %

' "#D>² h!a È CE^ g â

h_{de} = h_i + h , = \underbrace{h_i}_{CE^} + \underbrace{h_d + h , + h_{4w} + h_{ö}}_{Ö È CE^}

%ß o

ßžžœ<D ² !a È CE^

ßo(Ü• # - , Ñ!a È CE^ h_{dü}

(Ü• # - • Ñ!a È CE^ h>@...U!a È - CE ^ h_{iü} &mf /@&c- T CE^ h ¹ "nE€- • CE^ h_{ü} .ú • < %

(Ü• - , Ñ Z±±a È CE^ h_{dü} â

h_{dü} = \underbrace{h_{iü}}_{!a È CE^} + \underbrace{h + h_{ü}}_{!a È Ö È CE^} %ß@o

œœ # - , Ñ Z±±a È - CE^ h_{iü} â

h_{iü} = \lambda_{iü} \frac{c^0 L_{ü}}{Q D_{@}} %ß o

< Z "λ_{iü} g # - , Ñ Z "n Ö±±- CE^ 2(• "L_{ü} g(Ü• # - , Ñ "nE€v u J- Ó +D_{@} g(Ü• #

- , Ñ±±€Fü!a È, ! ± % - , ÑE 1/@ - CE^ h g â

h = \frac{\phi_0^0 u_0^0}{Q} \left(\beta - \frac{\beta}{b} \right)^0 %ß o

< Z "b g # - , Ñ ' ê Ó "b_0 g #D>' ê Ó "u_0 g #D>' ELÓ %

"nE€- • CE^ "E@ð- • >yα , 1 3üO¹ TM< %ß o ' @ðÄCE^ %Ü• - , Ñ0v u - • >y Ç v g â

\alpha , = \frac{\left(\sqrt{A_{\neq\alpha}} - \sqrt{A_r \neq\alpha} \right)}{L_v} %! o

< Z "A = D b "A_r = D \phi "α . %D_{@} \left(\frac{c_m D}{D} \frac{D}{c_u R} \right) =

α " # - , Ñ ' "nE€- M>y "L_{ü} g(Ü• # - , Ñ "nE€v u J- Ó +

3 %! o < '] - • CE^ 3üO¹ TM< %ß o" Ä] (Ü• - , Ñ±±"nE€- • CE^ h_{ü} %

0o<D • Kda Ñ² !a È CE^ <D Z Ô*L±±a È CE^ h_{ü} 9 d h>@2 X Ö È

CE^ h_{,ü}¹ - CE^ h_{iü} QF 3 % <D ² h±±a È CE^ g h_{ü} â

h_{,ü} = h_{,ü} + h_{iü} %ßso

< Z "α ± >ELÓ "μ5D±±a È Ö È CE^ h_{,ü} g â

$$h_{,ü} = \frac{\eta_{ü}^0 \alpha_0 \sigma^0 (D_0)^0 (b_0)^0}{Q} \quad \%00$$

< Z "η_ü g.è ð" #D>±æ/ u(' "c₁₀=u_φo" £

ï • Ç v z L • 4 ' %

!a È - CE^ g h_{iü} à

$$h_{iü} = \left[\lambda_{iü} \frac{c_{Q_0}^0}{Q} \mu S_{ü} \right] \times \frac{\beta}{A_x} \quad \%0$$

< Z "λ_{iü} g < D² - CE^ 2(• "λ_{iü} = $\frac{f_{iü} \beta_{ce} \Delta \tilde{A}_0}{x}$ "

c_Q g < D² F "n Õ±±mF ELÓ" μS_ü g < D ü - F

3+±•L•/ "A_x g < D ¶F WL•L•/ %

o' - • â !a È CE^ @ ðÄ

' - • â² !a È CE^ h_g à

$$h_{,} = h_{,} + h_{,} \quad \%0x0$$

æœä È - KhÈ CE^ à

$$h_{,} = \zeta_{,} \frac{\beta_{ce} Q \sigma^0}{Q_0 b^x} \quad \%0"0$$

< Z "ζ_, g ' - • â "n Õ CE^ 2(• "ζ_, =

$$\frac{\lambda_{,}}{\beta_{ce} / 0_0} \left[\beta - \left(\frac{A_x}{A_n} \right)^0 \right] \alpha_{,} g ' - • â - M > \ddot{y} \%$$

!a È Õ È CE^ h > @g "n E € - M Ô * L ± ± CE^ " ^

7 « + » - > x Õ 8 } T M < à

$$h_{,,} = \frac{\zeta_{,,}}{Q_{f0}} \left[\frac{x \beta_{ce} / D_0 \sigma_0 \phi_0}{\beta_{ce} / R_0 \sigma^0} \right]^0 \times H_{vd} \quad \%0$$

< Z "ζ_{,,} g - • â² ± ± - M CE^ 2(• " £ ï • Ç v z ' 4 ' %

4) 7 mE " %øø BUU "n D à è ð" " 1 EGnF #

Ô * L h ± ± a È CE^ h_d = • g g à

$$h_d = h + h_{de} + h_{dÜ} + h_{ü} + h_{,} =$$

$$h + \underbrace{h_{,} + h_d + h_{,} + h_{4w} + h_{,0}}_{\#D,^2 CE^}$$

$$\underbrace{h_{iü} + h_{,} + h_{ü} + h_{,ü} + h_{iü} + h_{,} + h_{,,}}_{\#D,^2 CE^} \quad \%000$$

æœæ è ð" " j € !a È u(' à

$$\eta_d = \beta - \frac{h_d}{H_{vd}} \quad \%0$$

Ö # ± æ/ CE^ N_, ' N

ß Ö ð œ # D > ² ! ñ \$ < " n F ü

.è ð" " #D>E 1 ó . (Ü = • L • x K ! ± ± K ! K A g 3

(Ü • " £ æ/ CE^ g à

$$Q = \mu A_{ü} \sqrt{Q_0 \mu H_{ü}} \quad \%0$$

< Z "A_ü g ó . (Ü (Ü • E CE^ L • / + μ H_ü g ó . (Ü z

; ± ± T M 8 x %

$$A_{ü} = \prod_{R_i} R_i = \beta^0 + D_i \times cl_0 \quad D_i \times cl$$

%o!o

æœæ @ ð Ä ñ \$ < " n F ü Q_s L - > @ ð Ä ñ \$ < " n F ü 2(• μ¹

ó . (Ü E & ' x K ! ± ±, μ " E @ ð Ä a È

CE^ μ H_ü ± ± æ" ! o ? ó . (Ü E & ' , È K z % K ! K A E

+ ± ñ \$ < " n F ü 2(• μ à » ó . (Ü = • L • 1 Ä 2 Ó Ä 1 L \$

A' • Re %

$$\mu = \left(\sqrt{\frac{L_{ü} \lambda}{0 \times cl} + \beta} \right)^{-\beta} \quad \%0\beta0$$

< Z "λ g Kh È 2(• " f > 7 « + » - > x Õ 8 } ! o " λ =

κ × λ_{iü} " λ_{iü} = f_{iü} β_{ce} Δ ð o % κ g 3 ü Ö 1 2(• " κ =

β ! " Re^{-1!!0%}

$$Re = \frac{c_{ü} D_{@}}{\nu} \quad \%000$$

< Z "c_ü g ó . (Ü K ! K A E ñ Õ ± ± E L Ó + D @ g ó . (Ü ∈ F ü a È , ! ± %

$$c_{ü} = \alpha_{üU}^0 + c_{üw}^0 \sigma^{\beta 0} \quad \%00$$

< Z "c_{üU} g ó . K ! K A E " n ∈ E L Ó ± ± D i > 3 F ü " c_{üU} =

$\frac{Q_s}{A_{ü}}$ + ü w g ó . K ! K A E " n ∈ E L Ó ± ± > 3 F ü %

* ! 1 " H O T P @ ñ g ó . K ! K A E " n Õ E L Ó D i >

3 F ü g ó . (Ü 1 D i > E L Ó ± ± - w à

$$c_{üw} = \frac{u D_i}{\theta_0} \quad \%0x0$$

æœæ U 4 Ç ! ñ \$ < " n F ü Q J i ± ± ò à 8 " . 7 1 <

'] %øø < " Ä] ó . (Ü ! ñ \$ < " n F ü 2(• i

μ % g @ ð Ä ó . (Ü E ' x K ! ± ±, È " L - > @ 0 ; ~

û # D > E β WL •] ó . K ! K A E i WL • 1 ± ± a È

CE^ " 2 # D > ² ! a È CE^ H_{β-0} " Õ È , K z CE^

H_{βq00} " # D > ' 7 - , Ñ E 1 ± ± @ - CE^ H₀₋₀ "

D > ' 7 ó . (Ü E 1 x K ! ± ± \$ 6 • , È CE^

H₀₀₁ %

$$\mu H_{ü} = H_{vd} - H_{β-0} - H_{βq00} - H_{0-0} - H_{001} \quad \%0"0$$

< Z " ; Q M ! ; h > @ @ @ ñ i • ± ± 2(U ' í Õ) %

N Ä \ # D > Z " β € ± ± Õ , K z CE^ " Õ , K z £ L < L •

± ± CE^ " 59 \ , È 6 * D T M g " n ∈ Õ 6 * " E L Ó È T &

È ü < " E 59 Ô * L - Ç ± ±, È % ' Õ , K z ^ E L

Ó ± ± È í ' = • @ à

$$H_{βq00} = \left[\varphi_0^0 \left(\frac{b_0}{b} \right)^0 + \eta_{d\beta}^0 \sigma_0^0 - \xi_{\beta}^0 \varphi_0^0 \left(\frac{A'_0}{A'_b} \right)^0 \right] \times \frac{u_0^0}{Q}$$

%o 0

#D' 0 WL•; ó . (ÜE i WL•K! æ6• CE^ h
 >® à »DTÖL• U"ß €Süt %*U8 Ô*L gE ø"Í "
 gE ø"Í +>ÿELÓ g ω_v " L G;7«+>-x ±±)3 @ç'@Ñ
 g gE ø"Í +>ÿELÓ; DTÖL•>ÿELÓ ω 1 #D', -
 ; "" K!+±K!KÆ .è s_ö 6 %

$$\omega_v = \frac{\omega}{\beta + 0 \left(!. \beta \oplus \frac{Q \delta}{D^0} \right)^{\times \otimes}} \quad \% \circ \otimes$$

æce ' "æ6• Z±±, Kz g á

$$H_{0\delta_1} = \left(\frac{\omega_v}{\omega} \right)^0 \frac{u_0^0}{\% \otimes} \left(\beta - \left(\frac{R_i}{R_0} \right)^0 \right) \quad \% \circ \circ$$

æce^ % o < 8% o < 1 % o < Ä μH_ü " 3 lo Ä
 ±± μH_ü i &ö . (Ü WL•L/ A_ü 1 % o < 4 É μ
 '] TM < % o Z " ? ' Ý ±±ó . K!KÆ \$ < Fü
 Q % g c_ü = f % o " Q = f % o " A_ü " μH_ü " o μ = f % o e "
 Δ_ö A Re = f % o o " m ' F 3 @ ðÄL->®: Ö % æ
 C^ M^ 0v • i æ' E = y lo ? %
 ßZææ u(' @ ðÄ

* * * D_j . !ñ \$ < ; = Z = ð 4 > EM = ±ñ \$ < 0v 2M'
 EÖö 7 3 ½ 8ä Äñ \$ < n Fü Q ; h > @ @ @ ð i
 • x K! ±± 2 (" @ ð Ä è ð "" ±±æ / u(' % æ / u('

$$\eta_{\dot{u}} = \beta - \frac{Q}{\% \otimes + Q \circ} \quad \% \circ \circ$$

$$\eta_{\dot{u}} = \beta - \frac{\mu D = \times cl \sqrt{\frac{\mu H_{\dot{u}}}{\% \otimes} \frac{\mu H_{\dot{u}}}{H_{\text{vd}}}}}{\% \otimes \phi \phi \phi \circ} \quad \% \otimes \circ$$

< Z " D_i g #D, ! ± " £ † i • Ç v z ' 4 ' %
 æ / u(' = • @ "" @ @ ð i n Fü Q_ö ;) 3 @ ç n Fü
 Q_vd x K! ±± 2 (á

$$\eta_{\dot{u}} = \frac{Q \delta}{Q_{\text{vd}}} \quad \% \otimes \circ$$

Öž± g Ý CE^ N ,

D, - CE^ P_ö Fö*U)3 @ç ½ Ö) 1 A O 1 •
 > 5 Ä] ±±w)3 @ç w 3ü O'D, - CE^ ð (' @ ð
 0Ä™ < %

P_ö % ð i ç w n D_ö " % o o
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$$u_0 = 0 n R_0 @ P_ö = \frac{c_f \gamma u D^0}{g} \quad \% \otimes \circ$$

< Z " c_f g D, - CE^ 2 (• %

.è ð "" #D,)3 @ç 8ä Ä ±± ð (' P_vd g á

$$P_{\text{vd}} = \gamma Q H = \frac{\gamma b_0 D \phi \phi \phi \mu_0}{g} \quad \% \otimes \times \circ$$

æce ò 50; ~ #D, ' 1 D, - EM = ±± CE^ "D,
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$$\eta_{\dot{u}} = \beta - \frac{P_{\dot{u}}}{P_{\text{vd}}} = \beta - \frac{c_f}{\% \otimes / D_0 \phi \phi \phi \mu_0} \quad \% \otimes \circ$$

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 (Ü = • L • ±± - CE^ ÷ #D, z ; , - Ô * L ±± - CE
 ^ ð (' "D, - u(' η_ö = • g g á

$$\eta_{\dot{u}} = \beta - \frac{P_{\dot{u}} + P_{\dot{u}} + P_{z_d}}{P_{\text{vd}}} \quad \% \otimes \circ$$

£ Z " #D, E 1 ó . (Ü = • L • - CE^ ð (' P_ö = á

$$P_{\dot{u}} = c_f \frac{\gamma u_0 D_i^0 (D_i)}{g (D_0)} \quad \% \otimes \otimes$$

æce z ; , - ±± - CE^ ð (' P_{z_d} Fö*U Ö = f n ð
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$$P_{z_d} = \frac{C_m \rho \omega}{0} \% \otimes - R_{\beta} \circ \quad \% \otimes \circ$$

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ß! # " C_m = !. !! " %
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$$\alpha \eta_{\dot{u}} = \beta - \frac{c_f}{\times \% \otimes / D_0 \phi \phi \phi \mu_0} \times$$

$$\alpha \left\{ \frac{0 - \% \otimes / D_0 \circ + 0 \% \otimes / D_0 \circ + 0 \% \otimes / D_0 \circ - A_{\beta} A \ddot{O}}{A_0} + \right.$$

$$\alpha \frac{\% \otimes / D_0 \circ - \% \otimes / D_0 \circ + \% \otimes / D_0 \circ}{A_0} + \times \frac{\% \otimes / D_0 \circ}{A_0} +$$

$$\alpha \left(\frac{D_i}{D_0} \right)^{\times} A_{\beta} \vartheta + \left(\frac{D_i}{D_0} \right) A_{\beta} \circ - \times 1_0 \circ +$$

$$\alpha \left(\frac{D_i}{D_0} \right)^0 A_{\beta} \left[\vartheta - \beta 1_0 + \frac{0}{0} = \% \otimes \circ \right] +$$

$$\alpha \left(\frac{D_i}{D_0} \right) A_{\beta} \left[\beta \vartheta - \frac{\times \times}{A_0} + = \% \otimes \circ - \frac{\times}{A_0} A^0 \right] +$$

$$\alpha \left[-\vartheta - \frac{0!}{A_0} + \frac{0 \otimes}{\beta} = \% \otimes \circ - \frac{\times}{A_0} A^0 + \frac{A_{\sigma} A}{\times} \right] \}$$

< Z " ϑ g #D, D_i L • n E ±± D™ > ÿ Ó ", z T Ó ± g
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 - ÇE^ à »Dj - +± • < "\$ ÒDj - +±g Ý ÇE^
 P₁₀ - 7Yg %B. × P_{vd}o" L• Ò ÈDj - ÇE^ Ì (P₁₀
 6*P Dè%0. 2 x. dP_{vd}%

$$\begin{cases} P_1 = P_{1B} + P_{10} \\ \eta_1 = \beta - \frac{P_1}{P_{vd}} \end{cases} \quad \%! o$$

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 EÐð7E N, +±' /ø " ' /ø .è ð "" +±h u('
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$$\begin{cases} \eta = \frac{\gamma Q_{\bar{o}} H_{\bar{o}}}{P_{vd}} \\ P_{vd} = \frac{\gamma Q_{vd} H_{vd}}{\%p_1 \eta_{\bar{o}}} \\ Q_{vd} = \frac{Q_{\bar{o}}}{\eta_{\bar{u}}} \\ H_{vd} = \frac{H_{\bar{o}}}{\eta_d} \end{cases} \quad \%! \beta o$$

$$\eta = \frac{\gamma QH}{P_{vd}} = \frac{\gamma Q_{\bar{o}} H_{\bar{o}}}{\frac{\gamma Q_{vd} H_{vd}}{\%p_1 \eta_{\bar{o}}}} = \eta_{\bar{d}} \eta_{\bar{u}} \eta_{\bar{o}} \quad \%! o o$$

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 4) 5 ÇE^ N, g á

$$\begin{cases} \eta_d = f \%p_d "R "b "R_x "b " \varphi_k o \\ \eta_{\bar{u}} = f \%p_d "D = "cl "L_{\bar{u}} o \\ \eta_{\bar{o}} = f \%p_d "D_o "D_1 "D = " \vartheta o \\ \eta_1 = f \%p_d "H_{\bar{o}} o) \dot{u} \cdot \dot{z} w \\ @ \eta = f \%p_d " \eta_{\bar{u}} " \eta_{\bar{o}} " \eta_1 o \end{cases} \quad \%! o$$

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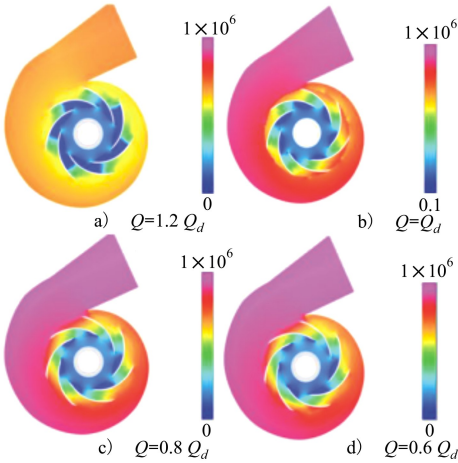
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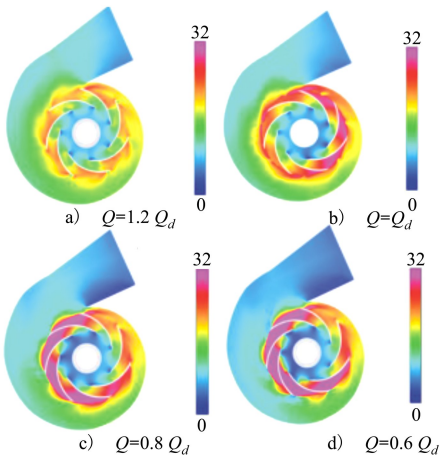
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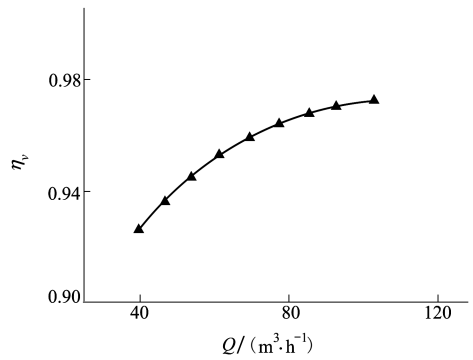


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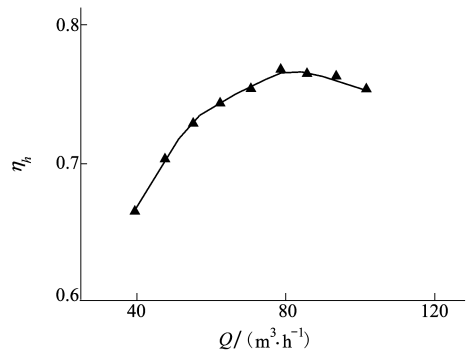
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Û ğY9Pã d= qUĵ ğ U qĝ žw> U] vd> •! žwkdUš •]•> &f ùž ð ð ğžk U 'ž) •! • vŷq ž ù žk
všükU qü] q Ž d k•] vŷü wüüvšĝ Uĵ •] üdUĵ=] •! vd !• qUšw ž vd ù žvšükU qü] q ğ Uĵf >
üüd U üvšž üdĵ &ĝ' ð q ĝ' üUĵ > ðü ğüĵ &ĝ' ùš vŷq Uvĝ ùš žk üdĵ &ĝ Uĵ •üw w ðK
!ü ðž ùš žž d df ħü ð ð •]•> " ùš ü] •]•> " !ĝžž • Uĵ] üdUĵ=U •]•> •! ù žvšükU
qü] q ĝ vŷ=d > ĝ q üvš f &f ùš &žžk vd !• vd •ĝžžèžU f" Uĵ žwkdUš •]•> •! ù žvšükU
qü] q U ùž vüüw" d=üd üUĵ vŷ=d vd ğ Ušž d=ĝ & w ž vd BŠ] Uĵ > ðž qUĵ wĝ Uĵ qü] q !!ž
ù=žüf •! vd ù žvšükU qü] qž d ž vd q ğ•đ Uĵù qĝ>÷všž•! Uĵ U ğ žkž !ü ù žvšükU qü] q U üUšž >
•üw&U > ž vd •]•> " Uĵ vd •]•> qĝ>÷všž ğ ùš] qUš > ðvd vd 4q ğž žw > UšU Uĵ èÖ
ð ü Ušž ğ ğ•đ Uĵù qĝ>÷všž > UšŽi ð ü Ušž ğ ü w d• vUšv d !!ž=žüf qĝ>÷všž üUü ğ Ušv ĝž•!
ù žvšükU qü] q = vdUĵ ÖŽ. & w ž vd •]•> Uĵ vd 4q ğž žw > UšŽ d ùš] qüvšžU !!ž=žüf
•! èÖ = vdUĵ xž. ùš] qUš > ðvd vd 4q ğž žw > Ušž ð vd > ðž ùž > ðžž d ğ Ušv ĝž= Ušv
BŽ. & w ž vd èÖ] vd> Uĵ vd •]•> d=üd d• vUšv •]•> qĝ>÷všž !!ž=žüf Uüüĝŷf =
& wĝvdUĵ vd èÖ] vd> Žçw d• vUšv=] vd> üUĵ & ü > w qĝ>÷všž !!ž=žüf q ğ•đ Uĵù •! ù žvšük
kU qü] q üž) ĝ > ðž qĝ ù Ž

pãe s-çã ùš] qüvšžU !!ž=žüf+!• ! = > +!• dUšw+ĝ žB=ŷŷ UĵUf =