

µāÇā Óyó ÓÑ# SéÑ# Óyáó ' ,

# P T6\*\*b Ö7b g 2(4 P ,L ' N æ" -A/£

{ 8 wP § G w• È wM©TÆ

‰-D GT " 1è- c ) ; Ô c -A/£ m" K, >->-¶ œ@!@o

...œ@Áµ & M4 1 KçÜ7- N, &7b2(4 ÈKr! T ú M: Bà+4gKçý ' - .ú • m5S54 ± N,, C+±  
P ,L ' N æ' U & ' N"n/8E =yK=±-m7 w F d,! "n\*b g \$ ) J • œð ö q! " , \*b Ö  
7bg g &AŽ =yP ,L ' N-A/£ 3 ½² 2(4 P ,L N, 3ñ=4 ± w£ & £ Z g : \*b g M Ö! g  
Ý Fú¹ M Ö Ó0vLç3ì T 2M±' N æ" E =yA 3óK=E V\*U ç ü ç' E =y, ,L4 É=• ; w /ø  
+±P ,L N, &7bgDÀ' DÀ' ' T 1 ² F ' ä . ' T +±=•(Ý6\* È ; ÈKr2(4 P Ó - 7! w6 u @í³ 2(  
4 N, +±L È Ó w& ý P N =y• c ) Ô c C +±, ,L1è Ó 6 Fúç@%óU

œl[ œ@Áb Ö7bg P ,L ' N • m5S54 ± N,, C g\*b2(4  
Z + 31" \$ Á .@ " œœœ' (l 4 - . Áöœœœ' 0 4C\$ Áʒ!!!K@ %! ʒ o! ʒK!!!@K

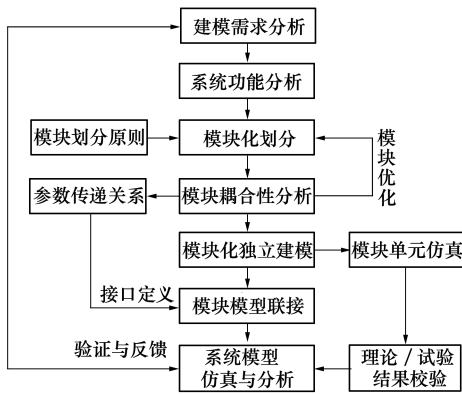
œœ\*b Ö7bg \ N=y• c ) Ô c 2(4 +±DÀ' " =y g  
± 'EÖðú3á7bL• | D™ f N=y• +±, . %M4  
7 "UN=y• c ) Ô c C , ,L Z "b Ö7bg +± " "  
N, GFöU¹ KçÜ7- =•g "E 1" N, 6\* L! D° æ  
@] ú M' 7bg +±T6\* 4 4 " , - 7 &dM% ; Khi  
! "s j " ó- > €(Ý' 7bg %og g\*b - €C2(4  
m± 6+±- )3! T % C "M4 N, - - Kë ó-  
ú M' 7bg m' 6+±Lç3ì T! T " , - K!KÆ Ó  
0v") 7! , ,L4 É | T "G7 ; ÈKr: 0S% ' "  
6 >ò@f > c ) Ô c C +±, ,LL-!o " &\*b Ö7bg  
2(4 +±P ,L ' N æ" E =y-A/£ " /øB² X g Ý &  
\*b!A &Ô c 0v J[ i • U² +±7b2(4 P ,L • " N  
, \*b Ö7bg < » ¥ , +±g\*b - €C g : 2(4 %  
z "g\*b2(4 +±' N æ" h>@ 3 g 01" åg) 3 3 ½  
" 1 ÈO¹' N" %g) 3 3 ½" \ EÖð³ ½2(4 +±Dý  
Ö>ñ, "U - È 5) 3 t @æ "DýU - Ç) 3 &Ç , 1  
Ì F' /øB²g\*b2(4 +±• " N, 59ÈO¹' N" F  
\ ' » 2(4 DÖð @çEÖð5) 3+±ÈO¹ æ" "V\*UDÀ  
' DÀ' • > mý È±± œ' /ø2(4 N, %  
M4 +±) 3 @ç N" \ 3 g\*b2(4 3 = g Ý &ʒ  
, 1 \*b!A0v( /ø } 2(4 "DýU - Ç) 3' /ø2(4 +±  
Ö È " Û 3 æ/8 " - 3ö ) ' g\*b2(4 +±ME?\* • %  
\*^ » T G g\*b2(4 F\* \ G " .p Ñ ö +±: o 2(4 " M

4 ' N æ" L->@C B• G WM³ " È í ³ ' NKë Ó %  
K¹/m@DÄg - \ +±p , "ç -A/£ ' ³ .ú EGU+±  
) 3 @ç N æ" " - J[ 5 + " &•4 " &ME? Kb' &æ  
, + ' N" &• > &AŽ' N" &2(4 + " 1 4~4 "  
0v" L Ö@DÄg 0v ɹ È(Ý & : o g\*b2(4 +±) 3 @ç  
' N ʒ00% s E È ' N æ" h>@...U 8 4g%aa†  
& ' N ç ..+±@G2M" >@o P +æN, ±EMg | 4  
->ñ80"- 7! TD° " L• T : @ @î+e N, +±  
f 1 , • %Füt %59ÈO¹' N" L->@6 ÈKr2(4  
%og \ ¾": E/ 5 J L @@Kcâ+±' N 3 ½ % ' "  
E 0.ú æ' F\*: E/ 5 » %og c ) Ô c C , ,L, +±  
+±7b2(4 P ,L ' NL-!o %g ³ ? à 7 E K MÀ' Y  
' ý ' - .ú • m5S54 ±±±N,, C' N æ" %£ EA  
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£ N, " &c; } N, N, ^5S5 T 3 ½ 5•B² " Ä  
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+±EGUN, " j 0Í ÈKr2(4 L' e : o " s EG  
Dô>FüN,, ü E 2 X @âGF # 1 } 2(4 +±T2(4 "  
AN,, ɹ 67œ ç • T "ú 59\$ Bà EL+±P ,L '  
NL-!o %V\*UA æ" " Y ' lµ &Fö\*U e d,! "n\*b  
g \$ ) J • œð ö | ¥ , 4 ±±±- 1" 7bg g &  
AŽ' £ ' » ] Uµ&ð ç ü ç' E =y2(4 +±P ,L  
' N-A/£ "EÖð, ,L 3 ½O¹@í³ mý ' ' N æ" +±

6 u T<sup>1</sup> m' N, ±±• → T %

Ó† • m5S5 N,, C' N æ"

mý' ±±• m5S5 N,, C' N æ" Ë(Ý"n/8 - + ß.m.g %£ Z "N,, C ? 3<sup>1</sup> 5S5 T 3 ½ \ ' N Dô8±± J[ "g<sup>3</sup> Ä ] < v ; → & 4! Ñ T<sup>a</sup> ±±N ,, "L-→@ <±±ì F 6 â† N,, Á<sup>1</sup> = ( /ø±±-) 3 ì 6\* "£ ì 6\* ( /øOì@î+æN,, U • " =Dè7 ± 6 ( /ø T " • " ! T U N ,, <sup>2</sup> F E =y1) 3 +e N,, 5S5 2( ; - " ; C\*y æÑ • □ 6 - 7! ±±Dæy C Ò %



+ ßæ• m5S5 N,, C' N"n/8

#† \*b Ö7bg P ,L N, 4 ±

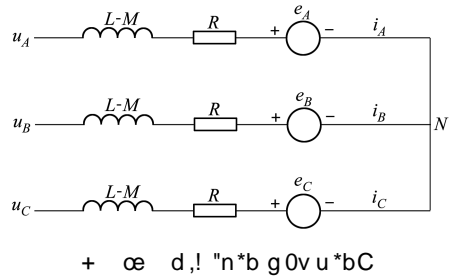
\*b Ö7bg \ d,! "n\*b g g6\*FÜD<sup>T</sup> F #±± g\*b - € C z 4) C CW (Ü g : 2(4 %f > DÀ' z 4) 4 T < Ô\*L & Á7b | >ÿ" @2(4 ± 6 x : CF BLD<sup>0</sup>v ÿ • ±±6 È "£ \$ Bà>@o # " ! T &M% " ! T0v T6\* 4 4 %h>@3ñ # 2 X d,! "n\*b g &g : k T\*b C &M Ö g ± &z 4) Ô c • 1 z 4) ML • 0v % ' »\*b Ö7bg ±±3ñ = ; 4 ± "f > • m5S5 N,, C ' N æ" &2(4 E =y N,, C ? 3<sup>1</sup> 5S5 2( 3 ½ " - 3ö Ä ] \*b Ö7bg 2(4 P ,L • " N, 4 ± ÷ N,, K15S5 2( - + 0 m.g %

+ 0æ\*b Ö7b2(4 P ,L N, 4 ± s +

ú† P ,L ' N

úŽ† g : \*b g ' N

!e-î d,! "n\*b g ^\*b g Y ∈ D<sup>T</sup> z 4) ML • 1 OžÖ\*b C ± = %D<sup>T</sup> z 4) ML • : Ú í "x-î @ z 4) "OžÖ\*b C f > D<sup>T</sup> z 4) \$ Ê N > 6, %4 3ñ È\*b "ú59 Ë(Ý\*b ) • ,%; OžÖ %6, % d\*b g ±± 0v u\*b C - + m.g %



f > + m.g 4 ± "V\*U\*b g " ) 3 @ç Ä\*b g Û 3 æ8 =.g g á

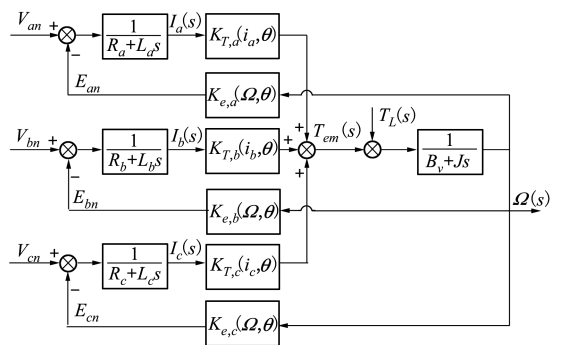
$$\begin{bmatrix} u_A \\ u_B \\ u_C \end{bmatrix} = \begin{bmatrix} R & ! & ! \\ ! & R & ! \\ ! & ! & R \end{bmatrix} \begin{bmatrix} i_A \\ i_B \\ i_C \end{bmatrix} + \begin{bmatrix} L & ! & ! \\ ! & L & ! \\ ! & ! & L \end{bmatrix} \frac{d}{dt} \begin{bmatrix} i_A \\ i_B \\ i_C \end{bmatrix} + \begin{bmatrix} e_A \\ e_B \\ e_C \end{bmatrix}$$

%öo

$$T_e = \frac{e_A i_A + e_B i_B + e_C i_C}{\Omega} \quad \%öo$$

$$T_e - T_l = J \frac{d\Omega}{dt} + B_v \Omega \quad \%o0$$

< Z "u\_x "i\_x "e\_x %ö=A "B "C o g 6, %4 3ñ±±\*b , &% \*b "n<sup>1</sup> , %ú\*b ì ± g 1, %4 3ñ±±0v u\*b L + g 1 , %4 3ñ±± 2 Kh f\_e<sup>1</sup> T\_l 3 X g \*b-î D<sup>T</sup> 1 BLD<sup>a</sup>D<sup>T</sup> M - ÷ g D<sup>T</sup> D<sup>T</sup> Ö F ü B\_v g Sü T - • ±Ω g D<sup>T</sup> D<sup>T</sup> EL%



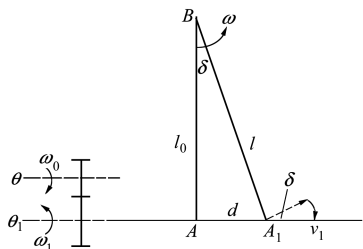
+ xæ d,! "n\*b g P ,L N,

& 7E æ/8E =y ĀUq Ūū • "£ ME?\* • s  
 + • <=•.g" Ä g : \*b g P ,L N , - + x m  
 .g % + Z "K<sub>T,x</sub> %p" θ o 1 K<sub>e,x</sub> %Q" θ o 3 X=•.g 1, %  
 4 3ñ+±b-î Ê- 2( • 1 ú\*b Ō ì 2( • %  
 úž† g ± ; BLD<sup>a</sup> N

M Ō g ± h ∈ Fδ\*U\$ ) J • œ ð ö 4 ± "g :  
 \*b g +±DÀ' D<sub>i</sub> V\*U - 3ŌT-D' ü EL; "E⊕\$ ) J •  
 œ 3 ø D T M Ō D T M C g, ! 3ì Dý Ō "° E⊕ð ö 3, ! 3ì  
 Dý Ō D T M C g 7bL • +±D T M Ō %

βo M Ō!

M Ō g ± 0- C - + " m.g "B %æ 7bD<sub>i</sub> D T M  
 ð "A %æ 7b | >ÿ g L # # J • <ç ú +± J ø z 4) "€ \*b  
 g >ÿ EL Ó ω<sub>1</sub> ø D T M # "<ç ú / ( ] A<sub>B</sub> %æ 7b | >ÿ  
 D T M Ō δ " >ÿ EL Ó g ω %



+ "œ M Ō g ± , 2(.g <

f > g ± ² F 1 Dý Ō F # +± z 4) ÷ EL Ó  
 2( "6 á

$$i_g = \frac{\omega_1}{\omega_B} = \frac{\theta}{\theta_B} \quad \% \times 0$$

$$v_B = \frac{p}{0} \omega_B \quad \% 0$$

$$\omega = \frac{v_B \dot{\theta} \delta}{l_1 / \dot{\theta} \delta} = \frac{v_B \dot{\theta} \delta}{l_1} \quad \% 0$$

\*^ %x0 2%o0 < Ä M Ō g ± U ( <7b | >ÿ 1 +± h  
 ü EL "g á

$$i = \frac{\omega_1}{\omega} = \frac{i_g i_1}{\dot{\theta} \delta} \quad \% 0$$

< Z "θ ω<sub>1</sub> g \*b g +±D T M Ō >ÿ Ó ÷ >ÿ EL Ó θ "ω<sub>B</sub> g J  
 • +±D T M Ō >ÿ Ó ÷ >ÿ EL Ó θ "ω g 7bL • +± | D T M Ō >ÿ Ó ÷  
 >ÿ EL Ó θ "i g 0Y - 3ŌT-D' œ ÷ ü EL g ± ± ± h ü EL  
 ! † g \$ ) J • œ ) / 8 †<sub>1</sub> g 7b | >ÿ UL # z # 7bD<sub>i</sub>  
 ± ± D T M Ō ± †<sub>1</sub> g 7b | >ÿ UL # z # \$ ) J • œ M Ō  
 ! "i<sub>1</sub> = 0 l<sub>1</sub>/p % >î "2(4 M Ō! £ L < e i "59 \ K ¼

7b | >ÿ u (Ý L < 3i T f " 7b | >ÿ +± ž ú 2( • g  
 β  
 ù • δ %

0o Fū

M Ō g ± • 4 g 8 x.ú Dý Ō F # ä b g DÀ'  
 D<sub>i</sub> \$ J • &ç ú "7b g DÀ' D<sub>i</sub> % £ Z <ç ú g Ō  
 Dý Ō "£ † t g D T M Ō Dý Ō % f > M Ō 2(4 ì ( ' ME?  
 2( ÷ 0v u z ; 2(4 m B [ ... Ō 6\* : ì F "£ 3 1  
 Dý Ō F # Fū Ä 0Ä ] \*b g D<sub>i</sub> 7 "0v u 6\* Fū =•.g g á

$$\frac{J\omega^0}{0} =$$

$$\frac{J_B \omega^0}{0} + \frac{J_0 \left(\frac{\omega}{i_g}\right)^0}{0} + \frac{m \left(\frac{p}{0} \frac{1}{i_g} \frac{\omega}{i_g}\right)^0}{0} + \frac{J \left(\frac{\omega}{i_1} \frac{1}{i_g} \frac{\omega}{i_g}\right)^0}{0} \quad \% 0$$

œ œ E⊕ð %o0 < Ä 2(4 0v u D T M Ō Füg á

$$J = J_B + \frac{\beta}{i_g^0} \frac{1}{4} J_0 + \frac{p^0}{x^0} \frac{1}{4} m + \frac{\dot{\theta} \delta}{i_1^0} \frac{1}{4} J \quad \% 0$$

< Z "J g 0v u U \*b g D<sub>i</sub> 7 +± 2(4 h Fū †<sub>B</sub> g \*b g  
 DÀ' D<sub>i</sub> Fū †<sub>0</sub> g \$ ) J • Fū † g 7b g DÀ' D<sub>i</sub> ÷  
 7bL • Fū †<sub>m</sub> g <ç ú B U Fū % >î "A M Ō æ < 8 g ±  
 ± ± Fū œ < • Ç "U 7b | >ÿ g L # # 0v u Fū - T "K ¼  
 ,m 7b | >ÿ Ě T "0v u Fū % & ü < %

o 2 XK!KÆ ± M Ō Ó

7bL • m - !A Ō BLD<sup>a</sup> E⊕ð M Ō Ó ; M Ō g ±  
 +± z / ( Fū % ž 5S 5 % 2(4 Z ± Ó 2 X 0F 3 á z  
 4) K (Ü C ² ± ± M Ō Ó 1 7bD<sub>i</sub> Ó % U z 4) K (Ü  
 C ² \*^ M Ō Ó m S ' ± ± z 4) A E⊕ð K (Ü  
 Ô c Í "μ K' 597bD<sub>i</sub> < » M Ō X 3 Ō "! Ò - !A Ō  
 J J + È - "BLD<sup>a</sup> - T "A F 3 Ó S ' ± ± z 4) A  
 & 2(4 z 4) 1 è Ö ž ú - T "M Í 50; ~ %

50; ~ ] 7bD<sub>i</sub> - 7Yg 3 • VL • "U š - %\* U 8 p  
 \*L š D T M • "£ • Fū =•.g g á

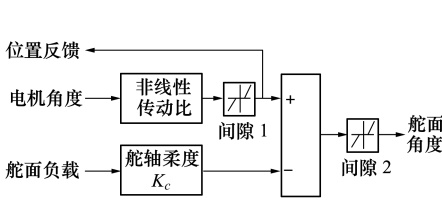
$$\Delta = \frac{0M}{G} \frac{\beta}{d^x} \frac{1}{4} \frac{1}{4} l = K_c \frac{1}{4} M \quad \% 0$$

< Z "M g J J + È - T < € g 7bD<sub>i</sub> — 4 N Fū † g  
 7bD<sub>i</sub> ! ± † g 7bD<sub>i</sub> 6 u J - Ó K<sub>c</sub> =•.g g M Ō 2(4  
 Ó %

\*^ Ä ] M Ō Ó N , =•.g - + m.g % £  
 Z "N , eK!KÆ ] &K!KÆ ] 3 X=•.g K (Ü C ² F  
 ± ± M Ō K!KÆ 7bD<sub>i</sub> ¶ =ð K!KÆ %

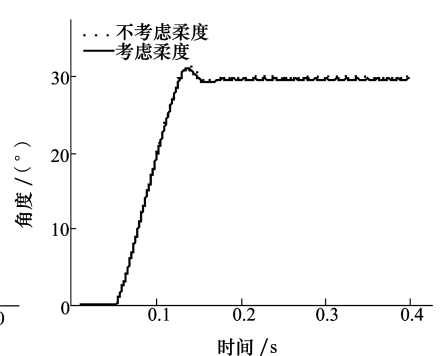
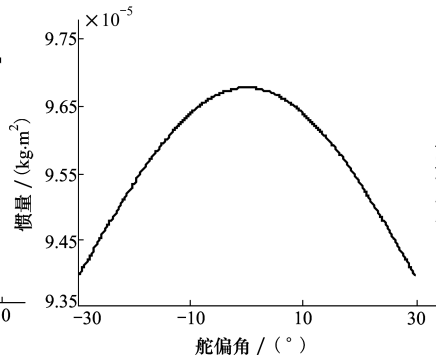
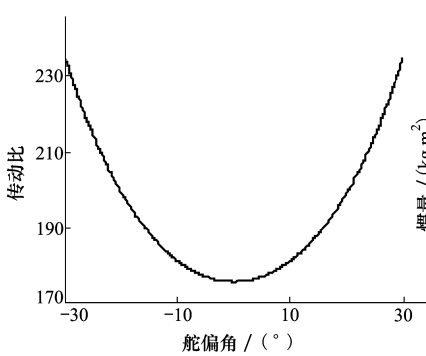
úž† Ō c , ' N

g ³ & K (Ü 2(4 E =y , LO'@í" @K @ @ Ō c  
 , N , %Fδ\*U 6 (Ü Ō c 0f\* "E⊕ð - C (Ü z 4) (Ü @ Ě



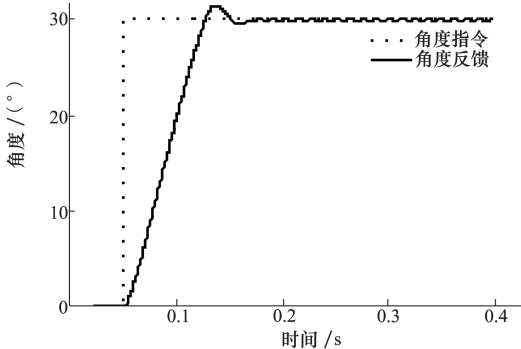
$$+ \text{æMÖ} \text{ ÖN} , s +$$

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 ZK!(ÜELÓ(Ü@@K} c DTELB²A0"Kz{ BLDª • Ö ž  
 ú EÖô² (Ü\*b"n(Ü+±@@Î @î EL\ Ö mL-\*b"n



+ æMÖ! K7b| >ÿ, ,L 3i æææææ+ æ FÜK7b| >ÿ, ,L 3i æææææ+ æMÖ Ö ž ú , ,L 3i

æææ+ @k.g MÖ! UL#z # - < "K7b| >ÿ Ë T  
 59 Ë T " U M !|7b| >ÿ=y/8² M Ö! CFüDë  
 Ž. ++ k.g 2(4 h FÜUL#z # - T "K7b|  
 >ÿ Ë T 59 ü < "• =y/8² FÜ C3Ó . ++ k.g  
 ³ \*^ » 2(4 MÖ Ó±ž ú ) 7! ËKr7bL • | >ÿ' (Ý  
 | " | FÜL->@U c ) Ô c C ZE =y=' - %  
 7bg z 4>C CW ú 3i \*b"n! T , ,L ÷ ËO'4 É  
 - + ß! 2+ ß0 m.g %



+ ß! æ !|KcBð4 C CW ,L 3i

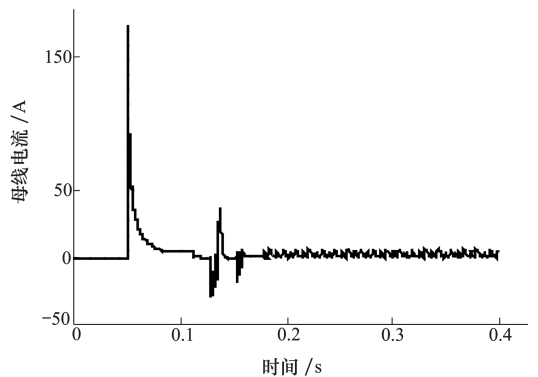
÷ bD™b â 8+±Dðn Ñ %

¼ , ,L ; 3 ½

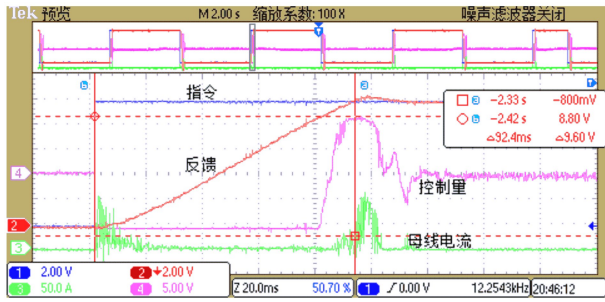
, ,L Ž # äJ %00! ÆJ ß %0 Ž"! ß! q' 'k¼ ] 0"J 0  
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 ,L ' J-g !Ž!" %

MÖg ±L' 3i T! T , ,L 4 É - + @7 +  
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æææ^ + ß! ,8 ' "7bg >ÿ ÓC CW TD°ª "A0  
 T #K!3Ó ß! ] "B²A0Fü3Ó . ++ ßß k.g ³ C CW  
 Dð8 ±±ú 3i \*b"n C " U \ ÖDð8 i \*b"n Dë  
 ß@ ö"UB,Dp' . # \*^ » g ± ü ELc Ö "' (ÝBL >  
 \*b"n Nµ" i 3Óq0" ö %



+ ßæú 3i \*b"n ,L 3i



+ 80æ7bg 4 C CWk A 3i

### ‡4 ‡@ç

Y ´ lµ &\*b Ö7bg M4 1 KcN , " • L• ú M  
 2(4 'l T±±: Bà"ý ' ³ - .úL• > : o g\*b2(4 ±±  
 • m5S54 ± N,, C' Næ" ' Ë(Ý &7bg g : 2(  
 4 ±±P ,L• " ' N%V\*UA æ" ¥ , ±±e d  
 ,! "n\*b g \$ ) J • æð ö |1" , 7bg 4 ± g &AŽ  
 E =yA 3ó±±' N ; 3 ½ "Fü%æ;~ ³ ËKr2(4 Z  
 d\*b g &MÖ! &g Ý Fü' M Ö Ó0vL3i T 2M  
 ±±' N "û596 u @î³ 2(4 N , ±±L Ë Ó % , ,L  
 4 É=• ; "Y ´ ý ' ±±æ" 5)3 6 u "m' /ø±P  
 ,L N , : ò6\* L8ä Ä7b2(4 DÀ' DÀ' 'l T "59A6\*  
 L ó→ ú M7bg U %Dð8 Z ² F \*b!A 1 g ÝDýÖ  
 C'l T "9 # , ,L #K! = Y { " & ý P N =y • c )  
 ; Öc C ±± , ,L 1ë Ó ± 6 D°a ±±Á\*U\$ i %

+ 80 k.g ³ Ë"x±±7bg æ" 4 C CW 3i " -  
 + m.g x WE€€3 X =• ³ 7bg >ý Ó 4 &ý Ó ú  
 Nµ&Ö c FÜDÀ' 1 ú3i \*b"n"x FÜ 3i %&! , ,L 4  
 É 1 "xA 4 É - " 1 52 U T 6\* DÀ' 1 \*b!A' T 7  
 t ± 6 D°a ±±- 7! T %

### ï 50´ ([ Å

80æEÍ Ä v " M È " ÜE TÆ 0v Žb"ß g : 2(4 ±±' N æ" -A/£ ; Á\*U .ÖŽ2(4 , ,L " Ò" O!! " 0R%oâ 888 K80"  
 î ÷k ; • jkf = ; dLk \_üLk @ü \_üLk • jk" wJŽX• ÷k ! 6 üvdf ðü ÷i f w] Lk ÷v oqq ÷iLk ÷ .ÖŽ•üçU • i f w]  
 i ÷ ü Uæç " O!! " 0R%oâ 888 K80" %æ dç o  
 00æ" le V "Eæ" H "F g "0v Žg \*b - €C2(Dæ N - U ; , ,L Do# ±±A/£ ; 3 ½ .ÖŽg Ý @@î ; -A/£ " O!! " ß %xoâ  
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 ÷Lk \_÷k = ; •ü @ü÷ç" Hü• ü =d÷k" wJŽi w f Lk òçUf = • i X• ÷k Lk i ÷ ü Uæç i • wLk !•çX üdUæç ÷i f K  
 w] .ÖŽXUdç Ö ÷k Lk • Uüid" O!! " ß %xoâ ß" K8 %æ dç o  
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