

JYSçãÑÑ s ys-VÑÓ yÓ ÓÑÑ SéÑÑ # úyÓ Ó ä

' » i 50%æ +± ç g C CW 4) B0f*' @@@Î

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‰-D GT " 7W " K• 1è· c) ; Ô c-A/£ m" K,>->-¶ œœ!@o

...œ@Á » M4 i 50%æ B æ' wçž•!! N <E =y, 4 C CW€ ç g,%&, 4 ELÓ æ> ; ç g U 3 • L H7VE&7 & Á%æ±43i æ> f >y ÒDp !|wA ÒDpL H7VE&# w..U ç g c ^] 3 • L H 7VE&7 u(' : P +±K MÅ f › 3i T C i 50%æ C CVß • L H7VE&±<>y Ót @ë@@Î³ ' » i 50%æ " +± ç g wçž•!!C CW Ç ð Õ, 4 g ÖN=yE ') B0f*' ,LO¹@î³ A 0f*' ±±6 u T w ç g 6* ELc ^] C CW 4±±3 • L H7VE&7

œaj[œ@úÁ ç g i 50%æ B" wçž•!!C CW) B0f*' /(Õ, 4 ,L Z + 31" \$ Å@œœœœ' ([4 -. Åöœœœœ' 0 4C\$ Å!!K@ %!O! o! ʒK ʒ@ K@

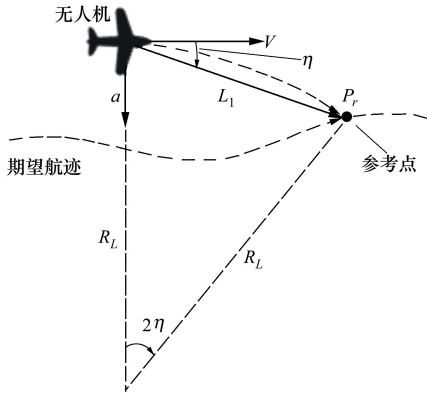
œœ ç g U È!>M³ 8ä Ä ¬" +±Á*U%' Ç ð Õ, 4 C CW ç g ±Fú>@‰%E (Î x - % wçž•!!C CW < \ - .ú*^, 4±±DýÕ! T & 5i! T ÷ ç g g Ö6* È &ML • Î "x6* È0v 2Mà Ç *^ ç g ; , 4 . 4 ÇC.è "£ 4 ÇELÓ¹ P Ó! 4 , 4 ‡ 3 • N=y±±± , 4 C CW < ʒ00% M4 +±! ,) B" U /8 Z Ä] ¬" Á *U "KÓ" s ' » wçž•!! N <Fô*U! ,) B" C CW Õ, 4 ...U\$; ±±K MÅ%ÂU ç žù 0v ç ý ' ³ ' » { Kò> A' X >Füg±µ & ' Ç, 4±± wçž•!!C CW) B æ" "E - ' t @ë 4 - EL! 3i DýÕ" & A æ" E=y³ = ' ¬ "ý P ³ &/(Õ, 4±±C CWë Ó "KÓ% i 50%æ B æ" ɱ 6 C CW 3i C ± T6*7œ &@» /8 È(Y±E i " ' ([KʒÓ3 i 50%æ *U » ç g & 3i 7VC ±±C CW B % ' ([ʒ003 i 50%æ Á*U »/(Õ, 4±± wçž•!!C CW 3 ½³ i 50%æ ±± #=E / Ç T % ' ([ʒ K ʒ » i 50%æ "3 X - , ³ ç g i 50>ó3i - FÜ¬Ó7 E/ Á±±7VE&C CVæ' -A/£ & o • 'ã 7VE&C CVæ' -A/£ &É>ñE- c) , @@@Î&° 5 úNµ œ±±c) , @@@Îv % ' ([ʒ00µ & i 50%æ' ...U±±i 50>ó3i ; %&ELÓ æ> f >y L->@ . g J=>y±K MÅ' ý ' ³ i 50%æ ELE ' 3 • L H7VE&±0f*' %

' » M4 i 50%æ B æ' wçž•!! N <E =y, 4 C CW€ ç g,%&, 4 ELÓ æ> ; ç g U 3 • L H7VE&7 & Á%æ±43i æ> f >y ò ÒDp !|" A ÒDpL H7VE&# "...U ç g c ^] 3 • L H7VE&7 u(' : P +±K MÅ%Y ' f › 3i T C i 50%æ C CVß • L H7VE&±<>y Ót @ëʒ00"@@Î³ ' » i 50%æ ±± ç g wçž•!!C CW Ç ð Õ, 4 g ÖN=yE ') B0f*' % ,LO¹@î³ A 0f*' ±±6 u T ¬ ç g 6* ELc ^] C CW 4±±3 • L H7VE&7 %

Óç i 50%æ ç9Y•s•• N <) B N ,

Óç i 50%æ B æ" - E

i 50%æ ±±Ç v ¬ + ʒm.g "U L H7VE&7 E6 - W,‡ , 4%æ00g i 50%æ£ ¬*UA i 50%æ = Ô > Í ELÓ 4 ʒ00%ɱ €] " ç g BUð g 3 ð " i 50>ó3i - FÜ! ʒ±±¬ Óg w ± %03 "A 3 ; L H7VE&Ñ%æ z » ç g z æ±±%æ g i 50%æ ç g =ØB) C CW L H7VE&%+ ʒZ ç g!a N=yELÓg ¬+ ç g Ô > Í ELÓ 4 g 9+ ç g) BN=yD™ w ± g t, + ç g!a ELÓ- FÜ¹ i 50>ó3i - FÜ! ʒK!±±f >y g "i 50%æ x_%

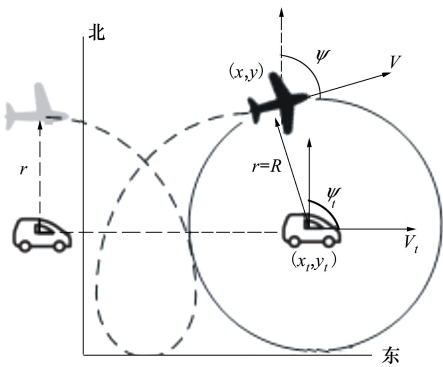


+ βœi 50%æ B æ' .g < +

f > + βm.g , 2(" ç g Ô > Í ELÓ g

$$g k \frac{0}{t_i} k \frac{0}{i_B} \approx \quad \%0$$

œœ7E c) , E/5 » C CW 3iC ± % - É ç g C CW 3 • L H7VE&" F*^2(4 Ô*L±Í ELÓ 4 9 ; ' # ç g 3 • DýÔ±±> ð Í ELÓ,%9 %*^ » U c) , Z ¬*U±±>ýÓ 2 X 3] ' ±±C ±±± œ"m A , i • ± 6 z NµÔc±±u É °% 3 ç g C CW Ô , 4±±i 50%æ" "; (Ý 6 ±± wê)•iC CW <4 5" D°a] È(Ý&/ Ô , 4±±C CW³⁰⁰" + 0m.g %



+ 0œ ç g wê)•iN < C CW Ô , 4.g < +

£ Z -g ç g] , 4±±C.è "t g 3 • L H7W E&w ± % • D æ> g i 50"MS#|µ g • " ç g!a ELÓ- FÜ±±æ>>ý g è±, 4 ELÓ- FÜ±±æ>>ý g èv± 4 ELÓ g ¬.%

*^ ' ([300' ç g wê)•iC CW Ç , 4±± | 7WÿEL(' TM< =.g g

$$\dot{e} k \frac{0}{i_B} \approx \quad \%0$$

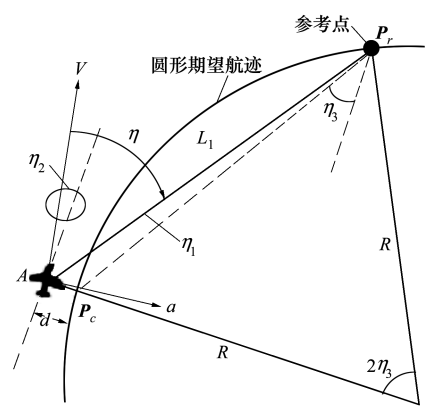
œœ ç g C CW Ô , 4 # ±±| 7WÿEL(' è g

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$$\frac{\dot{\nu} \nu \text{ } \%è f \text{ } è_{v0} j \text{ } \dot{e} \nu \nu \text{ } \nu f \text{ } \nu \text{ } \%è f \text{ } è_{v00}}{\text{ } \nu \text{ } \%è f \text{ } è_{v00}} \approx 0$$

œœ%0 < Z ç g,%&, 4 ELÓ g ¬.% € ¬ k ! # "%0 < C0- g %0 < " C CW Ç , 4 \ C CW Ô , 4 ±±! . ò • %

Ó#±3i T C±±i 50%æ ç 9¥•s•C CW , , 4 L† • # "i 50%æ wê)•i, 4 C CW € » ç g ±±L H7VE&g 3 • 300" + g ç g C CW 3 • L H7VE&ð • % + Z ç g € z z 4) g %æÛ' 3 • L H7VE&3 ð g %æÛ' ÛãE 3i U 3 • L H7VE& 7 ±±Ñ%æç %æç" ç g] 3 • L H7VE&Ô > | g •% g ç g!a ELÓ- FÜ' i 50>ó3i- FÜ!_ xK!±±f >ý" _ g ç g i 50>ó3i- FÜ' x_p x_E 3i ±±f >ý" _ g ç g!a ELÓæ> ; 3 • L H7VE& 7 x_p %æ3i æ>±±f >ý" g x_p x_E 3i ; 3 • L H7VE&7 x_p %æ3i æ>±±f >ý" %



+ œœ i 50%æ C CW 3 • L H7VE&g < +

*^ ' ([300Ä

$$k_B j_0 j \quad \%0$$

$$\approx \frac{i_B}{Ot} \quad \%0$$

$$\dot{u} \text{ }) \sqrt{\beta f \left(\frac{i_B}{Ot} \right)^0} k_B$$

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ææ*^ %xo<] %00< Ö Ä C CWß • 7VE&±± , 2(g

2) $\frac{B}{i_B} \cdot j \frac{p_1}{-} \cdot j \frac{i_B}{0t}$ %00

ææ€ 3!# " ç g wç)•||N<C CW Ö, 4 +± , 2(*^ %00< Ä

3) $\frac{B}{i_B} \cdot j \frac{p_1}{-} \cdot j \frac{i_B}{0t}$ %00

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' » 3i T C i 50%æ wç)•||N<C CW 4) B0f** +±@ÄL->50;~\$ Bà 1 0 +±<>ÿ Ót @Ë Ž # "E-z ç g c ^] 3 • L H7VE&) B u(: P +±K MÄ%

#± i 50%æ ç)9%•s•C CW 4 0f**

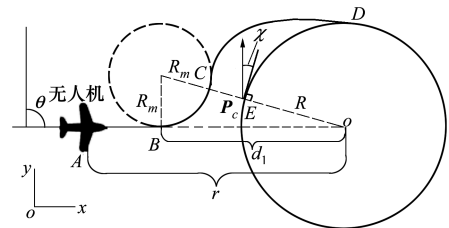
#ÿÓt ' » 3i T C i 50%æ ç)9%•s•C CW ç, 4) B0f** @Ä

*^ ^ ([30' ç g ' » i 50%æ +±C CW ç , 4+±| 7WÿEL(' 0f** g

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' ([30Z ç g ûE C.è 1 ÖDp 4 "' » i 50%æ B æ" wç)•||N<E=y, 4C CW >ÿ Ö Dp!d'A ç g,%&, 4ELÓæ>; ç g U 3 • L H7VE&7 & Á%æ±43i æ>f >ÿ 0 ÖDp !d"... U ç g c ^] 3 • L H7VE&7 u(: P +±K MÄ% |µ & 7E K MÄf > 3i T C i 50%æ C CWß • L H7VE&±<>ÿ Ót @Ë -*U i 50%æ z L->K} c ç g E ' 3 • 7VE&J ø Ž # %t Ç ç g Ç P N =y" ç g ûE C.è ÖDp 4 "4 ' - + x m.g +± ç g wç)•||C CW†•, 4) B0f** %



+ xæi 50%æ C CW†•, 4) B0f** .g < +

+ xZ ç g ∈ z z 4) g Ût_B g ç g - T | 7WÿEL(' DTM #+±DTM w ± +g ç g], 4 +±C.è +_B k√%t_B j i_B Ñ j t o° f t_B° + Øg ç g È # z 4); 3 • L H7VE&3 ð äE 3i U 3 • L H7VE&Ñ%æ±43i +±æ>>ÿ" ç g ∈ z!a ELÓ- FÜ æ>g è"è; Øf >ÿ=•.g g sè f Øs% ç g ûE C.è 1 ÖDp 4 "' » i 50%æ B æ" 4 MS#|µ æ > wç)•||C CW†•, 4) B0f** @Ä 8 % B0 ∈ ç g ; , 4C.è\$ Bà — •_B Ž # # ") B ç g li , 4 æ> ÖDpL H7VE&") B0f** g è k F %000

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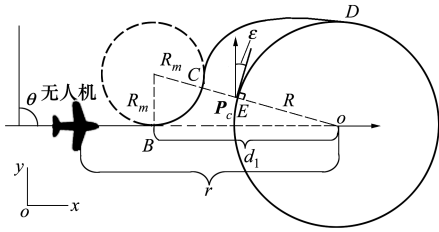
B ç g 6 - T | 7WÿEL(' DTM ") B0f** g è kf e_1^e_1 u %000 ææ o ∈ ç g ; , 4C.è\$ Bà t j i_B Ñ ö - t j i_B "A sè f Øsj [Ž # %æ Z [t Ç g ÖDp » L# +±<>ÿ Ói o" C ∈ ç g ; , 4C.è\$ Bà - t j i_B Ñ Ž # # " -*U i 50%æ" È(Y & L†•, 4 +± wç)•||C CW) B0f** g è k] =x e_1^e_1 u "èW %00

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#ÿ± ' » 3i T C i 50%æ ç)9%•s•C CW Ö, 4) B0f** @Ä

UC CW†•, 4) B0f** +±' -m7 "t @ë 4 † - EL! 3i DÿÖ "U) B0f** Z &) B , E=y=' - % t Ç ç g Ç P N =y" ç g ûE C.è ÖDp 4 " ç g wç)•||C CW Ö, 4) B0f** .g < + - 8 "£ Z -y g, 4 ELÓ T < %

ç g ûE C.è 1 ÖDp 4 "' » i 50%æ B æ" 4 MS#|µ æ> wç)•||C CW Ö, 4) B0f** @Ä 8 %



+ "æi 50%æ C CW Ö, 4) B0f** .g < +

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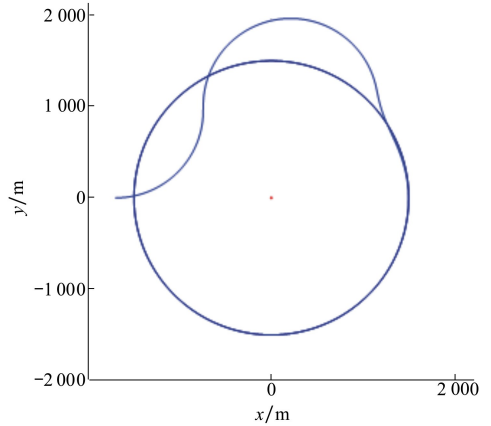
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ú† , ,L ; 3 ½

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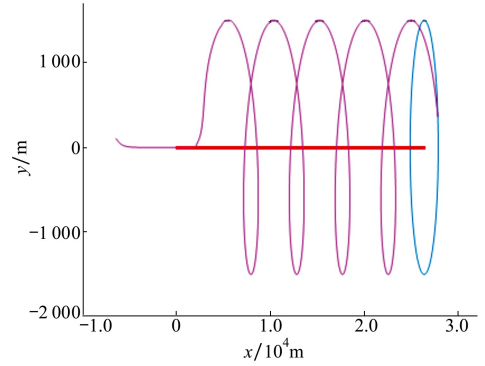
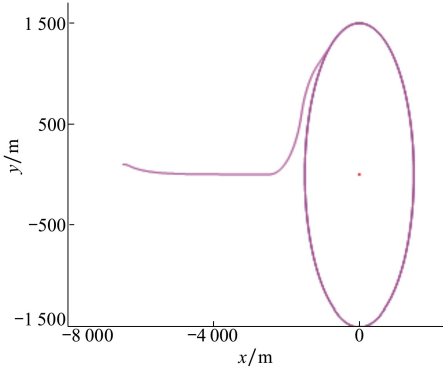
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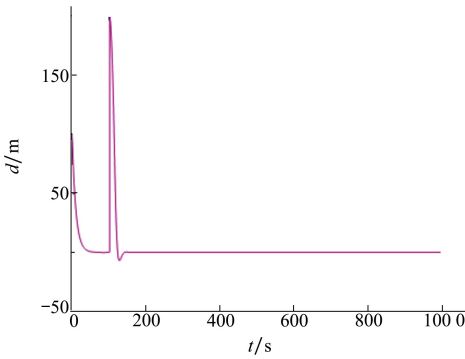
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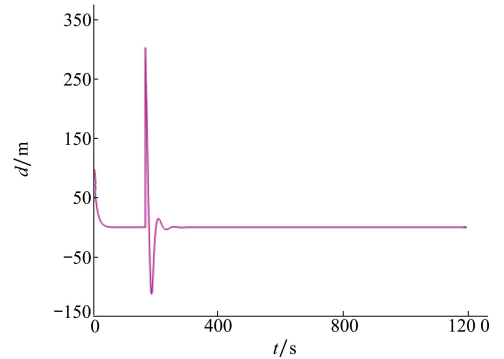
4) B0f** +±, ,L4 É - + @¹ + m.g %



+ @æi 50%æ C CW†•, 4) B0f** , ,LN g D•E&



+ æi 50%æ C CW Õ, 4) B0f** , ,LN =yD•E&



+ æi 50%æ C CW†•, 4) B0f** , ,L Ô > |

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+ Z " ç g û - ø ñ*UM4 i 50%æ C CW Lt•, 4] c ^ 7 3 • L H7VE&#K! g ß xžD % Á*UY ´ 0f** " ç g û - ø ñ*U i 50%æ C CW†•, 4] c ^ 7 3 • L H7VE&#K! g "žD ", ,L4 É k.g A) B0f** 6* L È(Ý ç g ELc ^] L H7VE&Fô*UY ´ @ @î±g ÕN=yE ´) B0f** " ç g J ø E ´ 3 • L H7VE&ÿ Ó 0D° < " ' Ô > | B²A0FÜD° < %

Á*UY ´ 0f** " ç g û - ø ñ*U i 50%æ C CW Õ, 4] c ^ 7 3 • L H7VE&#K! g @žx " < » ñ*UM4 i 50%æ C CW†•, 4 c ^] 3 • L H7VE&#K! %, ,L4 É k.g A) B0f** 6* L È(Ý ç g ELc ^] L H7VE&" ÷ &/ (Õ, 4 +±. 4 C CWFô*Ug ÕN=yE ´) B0f** " ç g J ø E ´ 3 • L H7VE&ÿ Ó 0D° < " ' Ô > | B²A0FÜD° < %

úyú† ç 9%•s•C CW Õ, 4) B0f** , ,L ; 3 ½ C CW Õ, 4 , ,L t @ž # à, ,L • L ô%

1/4 † @ç

!žD " ç g J ø } 4 %a "!!] "ß!!] o"è%b0%o !|"a ELÓ ñ%!!] ð"3 • L H7VE&w ± t %o ß "!!] "i %o!!] † 4 J ø } 4 %b"!o", 4 ELÓ g • l æ > "¬%o!] ð" ç g - T | 7WÿEL(é¼ %x| ð%i 50%æ wü•!|C CW Õ, 4) B0f** +±, ,L4 É - + ¹ + ß! m.g %

' » M4 i 50%æ B æ" wü•!| N < E =y, 4 C CW € ç g ,%&, 4 ELÓ æ > ; ç g U 3 • L H7VE&7 & Á%æ±43i æ > f > ÿ 0 ÒDp !|" A ÒDpL H7VE&# " ...U ç g c ^] 3 • L H7VE&7 u(: P +±K MÅ%Y ´ f › 3i T C i 50%æ C CWß • L H7VE&± < > ÿ Ó t @è³@ @î³ ' » i 50%æ ±± ç g wü•!|C CW Ç ð Õ, 4 g ÕN=yE ´) B0f** %, ,L O¹ @î³ A 0f** +±6 u T " ñ ç g 6* ELc ^] C CW 4 +±3 • L H7VE&7 %

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Uk dfq wd = !•φ φ i φ zù qφ=wkü=Ukù] wd) wdUí=k > =φ > ùüü Uk qUd = wü => žö ùüφ =k w wd="
> =k z > U] Uk üü φ=k z w f kü=zk wdUk f !•φ öÆ wUk) •!! wdUí=k i=4 > d] •ü=k wtk w&U > •z φ i φ zù
qφ=wkü=Ukù] wd) ži ð ü Uæ z φ ü w d • !! ùw z •! wd kü=Ukù wdUk f ž öÆ] =kdw@=ü' f ù zü φ
w wd ùüü Uk) =φ > qUd ž

p äe s-çã öÆφ i φ zù qφ=wkü=Ukù + wUk" •!! wdUí=k+kü=Ukù wdUk f +] •ü=k wtk w- ð ü Uæ z

Ó #sé-Y9 s• Ÿs-Y äçã ¥ xs e¶N¥ I9 ¥ äæéy

ôJ ç ç 9¶ ä Sæ Ū Hçç 9-Ypã • çY-éY• éY• ä-Yä Y-Bçs• Yä :- äYä ÷ sBBsç ŪY-éYs¶ ! Hçç %J YCã NŸ äYä sBBsç s-VŸ Hçç NēNŸ y o" J HJ
SäB Y éY-äY Pç éçã • çY-éYs¶ 9¶ -äS-éYs¶ ¥ 9¶e Bã éB" Sæ ä Yä s-V¥9 s-ç ç Sæ e Pç y