

G3ÓŒŽ # 8 • ɹ 5• c) /š]) f f E€æ u -A/£

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g g ² wg) B a W8ä, 4 HEMŽ # wK c) â FøU! ,) B , . E*CW±: 5 c) 0f* w 9 # \$
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Y C±±p , B, i ^{β00}%

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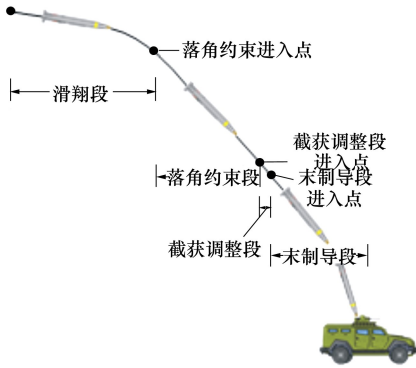
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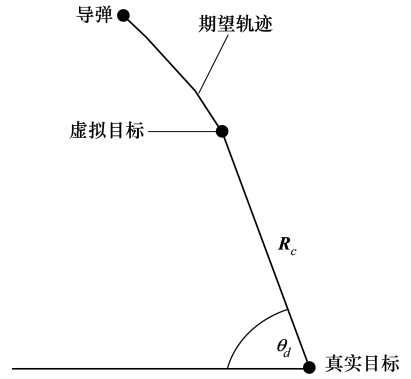
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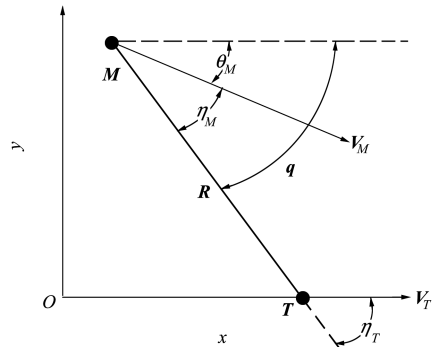
$$\begin{cases} x_{Æ} = x - R_c \cdot \theta_d \\ y_{Æ} = y - R_c \cdot \sin \theta_d \end{cases} \quad \%Bo$$

< Z å%o "y o g, L Ë, 4 } 4 +%œÆ "yÆ d' g ;‡
 , 4 } 4 +• ù g) B a W8äC .è +Q g L H9j>ÿ %
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*^ + - "f , DýÖ" 2(< g

$$\begin{cases} \dot{R} = -V_x \dot{\eta}_x + V \dot{\eta} \\ R\dot{q} = V_x \dot{\eta}_x - V \dot{\eta} \end{cases} \quad \%Bo$$

< Z åñx = q - theta_x "eta = q - theta " » h (&AŽg] L•
 , 4 " @ñθ = !R g f , C.è "R g ÒDfELÓ +
 V_x "V 3 X g /§]) f ELÓ¹ , 4 ELÓ t ¹ q g f
 , >óì >ÿ¹ >óì >ÿELÓ %

E6 'ã . Fù

$$x_B = q - \theta_d \quad x_0 = q \quad \%o0$$

œœt Ç/§]) f ELÓ¹ , 4 ELÓ t g e Fù"
 a_x = V_x \dot{\theta}_x " & %œo < !o) £4 5 %œo < "3ü j 3 ;
 Ä c) 2(4 'ã . æ/8 g

$$\begin{cases} \dot{x}_B = x_0 \\ \dot{x}_0 = -\frac{\alpha}{R}x_0 - \frac{\dot{u}}{R}\eta_x a_x + \frac{\dot{u}}{R}\eta a \end{cases} \quad \%00$$

œœf › =y ÒDpì)3 "@@Îc) , - Ä x_B"x₀ U
6K} #K!B₃Dp»L#" 6* @7§]) f L H+±9j
>ÿ1ë-) a Z, 4 %

& » c) 2(4 %œœ"E6 L<t / 3ë0 #pNL•

$$s = x_0 + k_B x_B + k_0 |x_B|^\gamma \quad k_\gamma \%00 \quad \%00$$

< Z âk_B = ù•ç w> !#₀ = ù•ç w> !+β< γ = p/q <
0" p"q t g T »L#±• t • %

@@ÿ E/ ÁB₃Dp, g

$$s = -\alpha \frac{|\dot{R}|}{R} s - \frac{\varepsilon}{R} k_\gamma \%00 \quad \%00$$

< Z âα = ù•ç w> !η = ù•ç w> !ε = Δ + η =
ù•ç w> !%

û %œœ < ,8 ' " ∈ R D° T # "B₃DpELÓD°

• " ∈ R ! # "B₃DpELÓDÆLÉ Í "E d @@î
c) 2(4 E ' #p ÕN. %

& %œœ < !o) "£4 5 %œœ < "@@Îc) , g

$$a_x = \frac{\beta}{\dot{u} \eta_x} \%00 \alpha + k_B R \alpha_0 +$$

œk₀Rγ |x_B|^{γ-β}x₀ + α |Ṙ| s + ε k_δ Ò %œœ

< Z "R¹ Ṙ W "• π5•/§]) f 6 UX â z -

*U) B a±x̄Fü œ%+ βm>ñ?+±£ † 1 â "

EÖð T) 7WÐ^agL\$Dë& L) 7W0v ý È±±z4>

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< & E/ ÁB₃Dp, %œœ < @@@Îc) , %œœ < "F2(4

'ã . 3 U 6K} #K!² c ^ 7 L#"£ A j Wc) Dð8

Z : ...Ut / ±±K MÄ%

@î; œE6 ÂfUç•ù* •

$$V_B = \frac{\beta}{0} s^0 \quad \%00$$

& %œœ < !o) "6

$$V_B = ss = \frac{\beta}{R} \%00 \alpha | \dot{R} | s^0 - \varepsilon | s | + a \dot{u} \eta s o j$$

$$\frac{\beta}{R} \%00 \alpha | \dot{R} | s^0 - \varepsilon | s | + a \dot{u} \eta | s o j$$

$$\frac{\beta}{R} - \alpha | \dot{R} | s^0 - \%00 - \mu o | s | \dot{O} j$$

$$\frac{\beta}{R} \%00 \alpha | \dot{R} | s^0 - \eta | s | o j$$

$$\frac{\eta | s |}{R} = -\frac{\sqrt{0} \eta V^1}{R} < ! \quad \%00$$

œœ ' "\$ Bâ#p N] DëŽ # %f › ' ([βx Ò±B
)3 "2(4 \ 6K} #K! c ^ ±±"6K} c ^ #K! t_{r,B} \$ Bâ

$$t_{r,B} < R \%00 | s \%00 \alpha \eta^{-\beta} | \quad \%00$$

< Z "

s %œœ = x₀ %œœ + k_Bx_B %œœ + k₀ |x_B|^γ k_γ %œœ %œœ %œœ %œœ

2(4] Dë#pNL• ; "3!ì #pNL•DýÕ,!] c ^ 7 ì

%æ' # #pNL•\$ Bâ

$$s = x_0 + k_B x_B + k_0 |x_B|^\gamma \quad k_\gamma \%00 = ! \quad \%00$$

50;~] x₀ = x_B"6

$$x_B = -k_B x_B - k_0 |x_B|^\gamma \quad k_\gamma \%00 \quad \%00$$

E6 ÂfUç•ù* •

$$V_0 = \frac{\beta}{0} x_B^0 \quad \%00$$

& %œœ < !o) "4 5 %œœ < "6

$$\dot{V}_0 = -k_B x_B^0 - k_0 |x_B|^\beta \gamma j - 0^{\beta-\gamma} k_0 V_0^{\beta-\gamma} \quad \%00$$

œœ 9 7 "f › B)3 "2(4 \ 6K} #K! c ^ ±±"6K}
c ^ #K! t_{r,0} \$ Bâ

$$t_{r,0} j \xi |x_B|_{p_0} \%00 \quad \%00$$

< Z "ξ = 0^{\beta-\gamma} \%00 - γ d₀ %œœ

*^ %œœ < 1 %œœ < - "c) 2(4 3 U 6K}

#K!² c ^ 7 #p ÕN. "&c; !ì ,m#pNL•DýÕ "€ x_B

c ^ 7 L# # "x₀ œc ^ 7 L# %œœ @1 %œœ

ÓŽ± 3 â c) , @@Î

βo #p5 â

A â ±±*U \ È Í 1/8 "Fô*U- T t KH æu %œœ

$$\alpha \%00 = \alpha^M M a "h o \quad \%00$$

< Z "α^M g € z N =y(Û° ±±OTB̄ • 1 P Ó8 - T

t KH m & Á±±h >ÿ %œœ

0o9j >ÿ3ÓCEâ

A Kcâ L H9j >ÿ θ_d 3) f) B7 ;‡ , 4

%œœ E6 'ã . Füg x_B = q - θ_d "x₀ = q" c) , Fô*U

%œœ < %D™ A Kcâ ±±Ž # g

$$y < h_{ys} "h_{ys} = \dot{u} \eta w> ! \quad \%00$$

< Z "h_{ys} g D™ 9j >ÿ3ÓCEâ ±±P Ó "£ i f › T

Fü, L4 È-> Ç %œœ

o WâA0j â

A Kcâ E =y f € , . A0j "¬ £ U n @âWâ%œœ

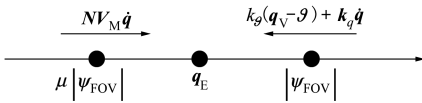
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 $R_{XÆ} < R_{Lz}$ " $R_{Lz} = \dot{u} \cdot \dot{z} w$! %œ o
 < Z âR_{XÆ} g / §]) f ; ; † , 4 ±ž C . è R_{Lz} g A0
 j âD™ Ž # i • %

xo X c) Kcâ

A Kcâ Fô*U! ,) B ; , . E*CW±: 5 c) 0f
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 ±±z 4 > ý 1 h > ý æ @EM=) B a O ^ , 4 "59 , .
 E*CW* L ü < € >ó3i | % ' " û @M 1ë Ö 1 > ó
 g 3ÖE ±±ž ý Ö50 ; ~ " Fô*U! ,) B ; , . E*CW±:
 5 c) , % £ = • Dë < - %œ o < m.g %

$$a_x = \begin{cases} NV_{X\dot{q}} & q_6 \cdot \mu | \psi_{\delta \text{Æ}} | \\ k_{\vartheta} \% q_0 - \vartheta o + k_q \dot{q} & q_6 | \psi_{\delta \text{Æ}} | \end{cases} \%œ o$$

< Z âq_6 g >ó3i A > ý ±ž g > ý ±ž g ! ,) B
 Ë ±ž2 (• †_ϑ "k_q g , . E*CWË ±ž2 (• "ψ_δ Æ g) B
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€ R j R_{c1} # "c) 2(4 %œ Ö "A Kcâ c) 4
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Z X c) *^ » 0.ú c) , 4 ' ±žDœª 4
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 c) Ñ Ò) Dœª 4 = • Dë < - 8

$$a_x = K_j a_{Lz} + \%œ - K_j \alpha_j , \%œ ! o$$

< Z â_{Lz} W8ä A0j â Dœª 4 ±ž_1 , g X c) â Dœª

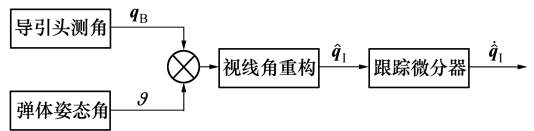
4 " 4 • 2 (• K_j ±ž• Dë < - 8 â

$$K_j = \begin{cases} \beta & t < t_1 \\ \beta - \%_0 - t_1 \sigma / T_k & t_1 \leq t < t_1 + T_k \\ ! & t \geq t_1 + T_k \end{cases} \%œ 0$$

< Z âT_k %d Ž g Dœ#N#K! ±ž_1 g X c) - ø # h %

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• α5 •) B a " , ! Ò "x FÜ >ó3i > ý "L- & >ó3i
 > ý E = y Fú ± " ° 3ü E / € ±ž Û 3 4-4 "] @ Î ' >ó3i > ý EL
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+ "œ • α5 •) B a >ó3i > ý ELÓ] @ Î æ u 4 ±ž +

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 > ý Fú ± = • Dë <

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$$\begin{cases} \dot{x}_B = x_0 \\ \dot{x}_0 = -r - ! W_{\alpha_0} - v " \alpha " \delta o + \beta r^{-\alpha} ! W_{\alpha_0} " \alpha " \delta o \end{cases} \%œ 0$$

< Z

$$|W_0^\alpha| \delta = \begin{cases} |z|^\alpha k_g & |z| > \delta \\ z\delta^{\alpha-\beta} & |z| \leq \delta \end{cases}$$

r "α à Ç³ CCW± ELT β ž ú — ¾c u É %EG
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 >ÿELÓ %Y´ E6 r = "!"α = !. @δ = "h"β = β @h
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ý , • ¼5•/§]) f h (] L• , 4 g , "Fô
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 ,L O¹@iæu±±6 u T " , ,L Ž # - 8 â

J ø Ž # â

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 Q "ELÓ V_{x!} %0x!] ð "k>ÿθ_{x!} %d |") B a W8âC
 .è R_ü %o !!!] ") B a - < %*UC .è R_ü %0!] "
) B a>óg ψ_è %M |" L H9j>ÿθ , %q@ |", 4 J
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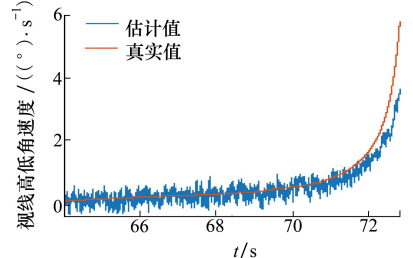
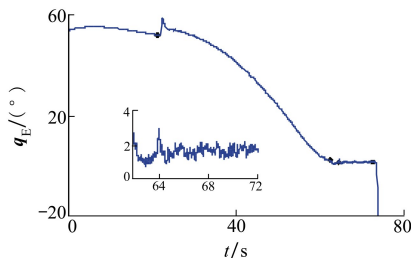
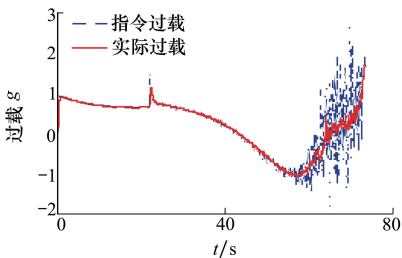
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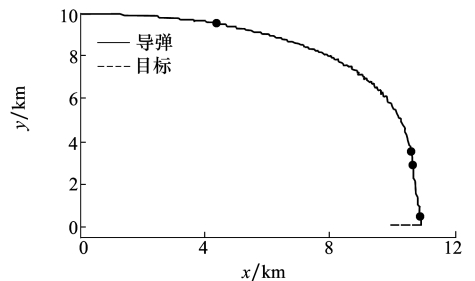
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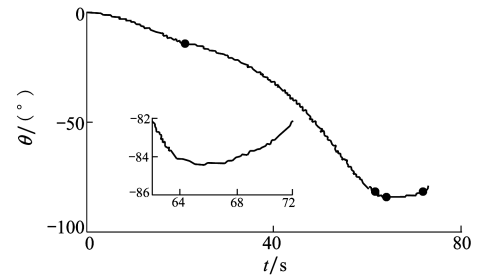
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