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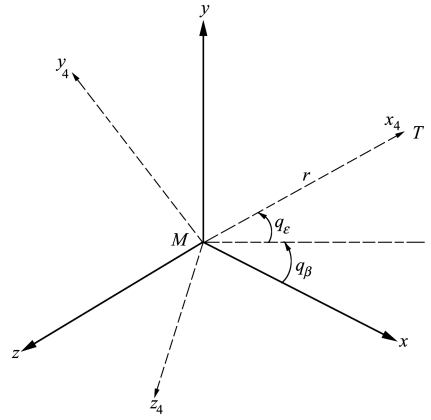
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$$\frac{\partial V}{\partial t} = \omega \times V + \frac{N}{N} = a - a_x \quad \%00$$

$$< Z \hat{a} \frac{\partial V}{\partial t} = \bullet \cdot g - F \dot{U} V + \pm 4 \&) \bullet + \frac{N}{N} g - F \dot{U} V + \pm \%$$

$$\&) \bullet \bullet \omega g > \dot{y} EL \acute{O} \%$$

$$3 > F \dot{U} \omega E = y \ddot{o} \dots D^T C g - Kb" \bullet < - 8$$

$$m \cdot g \hat{a}$$

$$\omega^x = \begin{pmatrix} \dot{\phi} & ! & - \dot{q}_\epsilon & \dot{U} \bullet q_\epsilon \dot{q}_\beta & \dot{U} \\ \dot{\phi} & \dot{q}_\epsilon & ! & - \dot{U} \bullet q_\epsilon \dot{q}_\beta & \dot{U} \\ \dot{\phi} & \dot{U} \bullet q_\epsilon \dot{q}_\beta & \dot{U} \bullet q_\epsilon \dot{q}_\beta & ! & \dot{U} \end{pmatrix} \%00$$

$$4 \ 5 \%00 < 1 \%00 < \ddot{A}$$

$$\begin{pmatrix} \dot{\phi} & ! & - \dot{q}_\epsilon & \dot{U} \bullet q_\epsilon \dot{q}_\beta & \dot{U} \\ \dot{\phi} & \dot{q}_\epsilon & ! & - \dot{U} \bullet q_\epsilon \dot{q}_\beta & \dot{U} \\ \dot{\phi} & \dot{U} \bullet q_\epsilon \dot{q}_\beta & \dot{U} \bullet q_\epsilon \dot{q}_\beta & ! & \dot{U} \end{pmatrix} \begin{pmatrix} \dot{\phi} & r & \dot{U} \\ \dot{\phi} & r \dot{q}_\epsilon & \dot{U} \\ \dot{\phi} & \dot{U} \bullet q_\epsilon \dot{q}_\beta & \dot{U} \end{pmatrix} \begin{pmatrix} \dot{\phi} & r \\ \dot{\phi} & r \dot{q}_\epsilon + r \dot{q}_\epsilon \\ \dot{\phi} & r \dot{U} \bullet q_\epsilon \dot{q}_\beta - \dot{r} \dot{U} \bullet q_\epsilon \dot{q}_\beta + r \end{pmatrix} \begin{pmatrix} \dot{U} \\ \dot{U} \\ \dot{U} \end{pmatrix} \begin{pmatrix} \dot{U} \\ \dot{U} \\ \dot{U} \end{pmatrix} \begin{pmatrix} \dot{U} \\ \dot{U} \\ \dot{U} \end{pmatrix}$$

$$\dot{U} = a - a_x$$

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 | >ÿ ß "080 %
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$$V \%00 q_\epsilon "q_\beta = \begin{pmatrix} \dot{\phi} & r & \dot{U} \\ \dot{\phi} & r \dot{q}_\epsilon & \dot{U} \\ \dot{\phi} & \dot{U} \bullet q_\epsilon \dot{q}_\beta & \dot{U} \end{pmatrix} \%00$$

& %00 < !o) Ä

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$$\ddot{r} - r \dot{q}_\epsilon^0 - r \dot{q}_\beta^0 \dot{U} \bullet^0 q_\epsilon = a_r - a_x \quad \%00$$

$$r \dot{q}_\epsilon + \dot{U} \dot{q}_\epsilon + r \dot{q}_\beta^0 \dot{U} \bullet q_\epsilon = a_\epsilon - a_x \quad \%00$$

$$- r \dot{q}_\beta \dot{U} \bullet q_\epsilon - \dot{U} \dot{q}_\beta \dot{U} \bullet q_\epsilon + \dot{U} \dot{U} \bullet q_\epsilon \dot{q}_\beta = \dot{U} \bullet q_\epsilon = a_\beta - a_x \quad \%00$$

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$$\begin{aligned} \dot{x}_\beta &= x_0 \\ \dot{x}_0 &= x_\beta^0 + x_\beta^0 \dot{u}^0 q_\varepsilon - a_{x_r} + a_r \\ \dot{x}_x &= x_x \\ \dot{x}_x &= -\frac{Q_0}{x_\beta} x_x - x^0 = \dot{u}^0 q_\varepsilon - \frac{a_{x_\varepsilon}}{x_\beta} + \frac{a_\varepsilon}{x_\beta} \\ \dot{x}_x &= x \\ \dot{x} &= -\frac{Q_0}{x_\beta} x + Q_x x \omega_{\dot{u}^0 \varepsilon} + \frac{a_{x_\beta}}{x_\beta \dot{u}^0 q_\varepsilon} - \frac{a_\beta}{x_\beta \dot{u}^0 q_\varepsilon} \end{aligned}$$

%o

B' n W) f ±X c) - † #K! t_k

$$t_{k^*} = -\frac{r}{r} = -\frac{x_\beta}{x_0} \quad \%o$$

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$$t_{k^*} = -\beta + \frac{x_\beta^0}{x_0^0} x_x^0 + \frac{x_\beta^0}{x_0^0} x_i^0 \dot{u}^0 q_\varepsilon - \frac{x_\beta}{x_0^0} a_{x_r} + \frac{x_\beta}{x_0^0} a_r \quad \%!$$

3 X c) - † #K! t_k %og 64! /§K! | 9 c) N ,

±ä . Fü" F f , , %&DýÖ æ/8 =.g g 080

$$\begin{aligned} \dot{t}_{k^*} &= -\beta + \frac{x_\beta^0}{x_0^0} x_x^0 + \frac{x_\beta^0}{x_0^0} x_i^0 \dot{u}^0 q_\varepsilon - \frac{x_\beta}{x_0^0} a_{x_r} + \frac{x_\beta}{x_0^0} a_{r_i} \\ \dot{x}_i &= x_x \\ \dot{x}_x &= -\frac{Q_0}{x_\beta} x_x - x_i^0 = \dot{u}^0 q_\varepsilon - \frac{a_{x_\varepsilon}}{x_\beta} + \frac{a_{\varepsilon_i}}{x_\beta} \\ \dot{x}_i &= x_i \\ \dot{x}_i &= -\frac{Q_0}{x_\beta} x_i + Q_x x_i \omega_{\dot{u}^0 \varepsilon} + \frac{a_{x_\beta}}{x_\beta \dot{u}^0 q_\varepsilon} - \frac{a_{\beta_i}}{x_\beta \dot{u}^0 q_\varepsilon} \end{aligned}$$

%ßo

a_{G_{ri}} %og Ý±±Ô c DÀ'

$$a_{G_{ri}} = \frac{x_\beta^0}{x_0^0} x_x^0 + \frac{x_\beta^0}{x_0^0} x_i^0 \dot{u}^0 q_\varepsilon - \frac{x_\beta}{x_0^0} a_{x_r} \quad \%o$$

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Ö±±64! | 9 c) N , 080

$$\begin{aligned} \dot{t}_{k^*} &= -\beta + a_{G_{ri}} + \frac{x_\beta}{x_0^0} a_{r_i} \\ \dot{x}_i &= x_x \\ \dot{x}_x &= -\frac{Q_0}{x_\beta} x_x - x_i^0 = \dot{u}^0 q_\varepsilon - \frac{a_{x_\varepsilon}}{x_\beta} + \frac{a_{\varepsilon_i}}{x_\beta} \\ \dot{x}_i &= x_i \\ \dot{x}_i &= -\frac{Q_0}{x_\beta} x_i + Q_x x_i \omega_{\dot{u}^0 \varepsilon} + \\ &\quad \frac{a_{x_\beta}}{x_\beta \dot{u}^0 q_\varepsilon} - \frac{a_{\beta_i}}{x_\beta \dot{u}^0 q_\varepsilon} \end{aligned}$$

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6K} #K!² B_» - 7! + - æL•@@Íó3ì 3â > 1 >ó

3ì Ô >±±Í ELÓ a_{\varepsilon_i}¹ a_{\beta_i} 6* L \$ Bà6 K} #K! Dè]

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Füt_1 4 , Ç) f U t # hM±x±6* L h (,

4 ±±#K! " Ä 000

$$t_1 = t + t_{k^*} \quad \%ßx$$

^ %ßx< Ä ">@- t_{k^} B_» - 7! " L- - Ä t_1 B_»

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f > %ß o< Ä

$$t_1 = a_{G_{ri}} + \frac{x_\beta}{x_0^0} a_{r_i} \quad \%ß" o$$

E6 / 3#pNL•

$$s_1 = t_1 - t_1 \%o - \ddot{u}^0 t \quad \%ß o$$

< Z â t_1 \%o \ t_1 ±±J ø i t_1^{i^0} \ - 7! T | @Û£

=•Dè< g 080

$$u_i^{i^0} = \pm \zeta \left(\sum_{j=\beta}^n \mathbb{R}_{C_{ij}} \%g - t_1 o \right) \left| \sum_{j=\beta}^n \mathbb{R}_{C_{ij}} \%g - t_1 o \right|^{\theta_i}$$

%ßo

ææf > ' ZFô*U±±/ 3#pNL•¹ 64! c) N ,

%ß oý ' ' » 6K} #K!±±- 7! T | @ÛC %

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$$\alpha_{\sigma_i} = u_i^{\sigma_i} - \hat{\Delta}_{ri} \sigma_i \neq \lambda_i \sigma_i - b_{\beta} \neq \lambda_i \sigma_i - b_0 s_{li}$$

$$\text{œl } \Delta_{ri} \text{ %} \text{ o} \text{ l} - \sqrt{s_{li}^0 \text{ %} \text{ o} + \hat{\Delta}_{ri}^0 \text{ %} \text{ o}} \text{ j}$$

$$\langle Z \hat{\alpha} \neq \lambda_i \sigma_i = s_{li} | \lambda_i \neq \lambda_i \sigma_i - b_{\beta} \neq \lambda_i \sigma_i - b_0 s_{li} \rangle \text{ !} \text{ !} \langle \lambda_i$$

$$\text{œ} \sqrt{\Delta_{ri}^0 \text{ %} \text{ o} - \sqrt{s_{li}^0 \text{ %} \text{ o} + \hat{\Delta}_{ri}^0 \text{ %} \text{ o}} \text{ j} \text{ !} \text{ %} \text{ o}$$

$$\langle \beta \neq \lambda_i \sigma_i \setminus \Delta_{ri} + \pm \rangle @ \hat{i} \text{ " } E / \hat{A} \text{ , } - 8 \text{ œ} \text{ 0}$$

$$f \text{ \textgreater } \text{ %} \text{ o} \text{ < } \hat{A}$$

$$\hat{V}_0 \text{ j} - b_{\beta} \neq \lambda_i \sigma_i | \lambda_i + \beta - b_0 s_{li}^0 =$$

$$\Delta_{ri} = \sigma_i | s_{li} | \text{ " } \Delta_{ri} \text{ %} \text{ o} \text{ > !} \text{ o} \text{ %} \text{ 0}$$

$$\text{œ} - \sqrt{0} \sigma_i^{\lambda_i + \beta} b_{\beta} V_0^0 - 0_0 V_0 \text{ %} \text{ 0}$$

$$\text{œ} \text{ œ} @ \# \text{ p NL} \cdot s_1 \text{ U } \hat{O} \text{ c} \cdot \text{ %} \text{ 0} \text{ < } \text{ %} \text{ 0} \text{ U } 8 \text{ 6}^*$$

$$\text{œ} \text{ œ} \text{ ' } \text{ " } 6 \text{ K} \text{ \# K! } ^2 s_{li} = \text{ !} \text{ " } \rightarrow \zeta \in \# \text{ p NL} \cdot \text{ c}$$

$$\text{L U } 6 \text{ K} \text{ \# K! } ^2 \text{ c } ^ \wedge \text{] \# p NL} \cdot s_1 \text{ !} \text{ %} \text{ | } 9 \text{ c} \text{) } 2 \text{ (}$$

$$\text{^ } \text{] !} \text{ \# " } s_{li} = s_{li} = \text{ !} \text{ " } \text{ \# h} \text{ (} \text{ \# K! } t_i \text{ } ^1 - \text{ \textgreater } \text{ \# K!}$$

$$\text{4 } Z t_i \text{ 6}^* \text{ L U } 6 \text{ K} \text{ \# K! } B_s \text{ \textgreater } - \text{ 7! } \text{ " } 9 \text{) } 3 - \text{ \textgreater } \text{ \# K! } t_{ks}$$

$$F^* 6^* \text{ L U } 6 \text{ K} \text{ \# K! } \text{ . } - \text{ 7! } \text{ " } @ \uparrow \text{ %}$$

$$\text{œ} \text{ 6}^* \text{ L B_s \textgreater } - \text{ 7! } \text{ %}$$

$$\# \hat{z} \text{ \textgreater } \text{ 0} \text{ 3i } 3 \hat{a} \text{ > c} \text{) , } @ @ \hat{i}$$

$$@ \hat{i} ; \text{ œ} \text{ f \textgreater } \text{ %} \text{ 0} \text{ < } \& s_1 \text{ !} \text{ o} \text{) } -$$

$$E6 \text{ L} \text{ \textless } 3 \text{ i } T \text{ EL3} \text{ 00} \text{ \# p NL} \cdot$$

$$s_{li} = - \hat{\Delta}_{ri} \sigma_i \neq \lambda_i \sigma_i - b_{\beta} \neq \lambda_i \sigma_i - b_0 s_{li} - \frac{x_{\beta}}{x_0} a_{Tri}$$

$$s_{\beta} = k_{\beta} x_x + k_{\delta} x_x + k_{\alpha} x_x \text{ %} \text{ 0}$$

$$\text{ %} \text{ !} \text{ o}$$

$$\text{ < } Z \hat{\alpha}$$

$$\Delta_{ri} = \Delta_{ri} - \Delta_{ri} \text{ " } \hat{A} \text{ f} \text{ U} \text{ q} \text{ ü} \text{ ç} \cdot \text{ ù}^* \cdot$$

$$k_{\beta} \text{ > !} \text{ \# } 0 \text{ > !} \text{ \# } \text{ > !} \text{ + } \text{ \# } \text{ %} \text{ 0} \text{ o} \text{ =} \text{ | } x \text{ | } ^{\alpha \beta} \neq \lambda_i \sigma_i \text{ o}$$

$$V_{\beta} = \frac{\beta}{0} s_{li}^0 + \frac{\beta}{0} \Delta_{ri}^0 \text{ %} \text{ 0}$$

$$E6 \text{ o NB}_s \text{ Dp}_s \text{ , } - 8$$

$$50 ; \sim \text{ %} \text{ 0} \text{ < } 1 \text{ %} \text{ !} \text{ o} \text{ < } \text{ " } \text{ \textless } \& \text{ \# K! } \text{ !} \text{ o} \text{) } \text{ "}$$

$$s_{\beta} = - \frac{\rho_{\beta}}{x_{\beta}} \neq \lambda_i \sigma_i \rho_{\beta} \text{ > !} \text{ " } \gamma_{\beta} \text{ > !} \text{ %} \text{ 0}$$

$$\hat{A} \text{ œ} \text{ 0}$$

$$\& \# \text{ p NL} \cdot \text{ %} \text{ 0} \text{ o} \text{ < !} \text{ o} \text{) } \hat{A}$$

$$\hat{V}_{\beta} = s_{li} s_{li} + \Delta_{ri} \Delta_{ri} =$$

$$s_{\beta} = k_{\beta} x_x + k_{\delta} x_x + k_{\alpha} x_x | x \text{ | } ^{\alpha \beta} x_x \text{ %} \text{ !} \text{ o}$$

$$\text{ * } \wedge \text{ %} \text{ 0} \text{ o} \text{ < } 1 \text{ %} \text{ !} \text{ o} \text{ < } \hat{A}$$

$$\text{œ} \text{ s}_{li} \text{ %} \text{ 0} \Delta_{ri} \sigma_i \neq \lambda_i \sigma_i - b_{\beta} \neq \lambda_i \sigma_i - b_0 s_{li}$$

$$k_{\beta} x_x + k_{\delta} x_x + k_{\alpha} x_x | x \text{ | } ^{\alpha \beta} x_x = - \frac{\rho_{\beta}}{x_{\beta}} \neq \lambda_i \sigma_i \text{ o}$$

$$\text{ %} \text{ 0}$$

$$\text{œ} \text{ b}_0 s_{li} - \frac{x_{\beta}}{x_0} a_{Tri} \text{)} + \sigma_i | s_{li} | \text{ %} \text{ 0} \Delta_{ri} - \hat{\Delta}_{ri} \text{ o j}$$

$$3 \text{ %} \text{ 0} \text{ o} \text{ < } Z x_x \text{ œ} \text{ / } 8 \text{ S } \text{ ' } \text{ %} \text{ 0} \text{ 0} \text{ < } \hat{A}$$

$$\text{œ} \text{ s}_{li} | s_{li} | \text{ %} \text{ 0} - \sigma_i \text{ o} - b_{\beta} \neq \lambda_i \sigma_i | \lambda_i + \beta - b_0 s_{li}^0 \text{ j}$$

$$a_{x_{\beta}} = \frac{k_{\beta}}{k_0} x_{\beta} x_x - \alpha_0 - \frac{\beta}{x_{\beta}} x_0 = \text{ ç } \text{ ü} \cdot q_{\beta} +$$

$$\text{œ} - b_{\beta} \neq \lambda_i \sigma_i | \lambda_i + \beta - b_0 s_{li}^0 \text{ j} \text{ !} \text{ %} \text{ 0}$$

$$\text{œ} \text{ œ}^* \wedge \text{ %} \text{ 0} \text{ o} \text{ < } \hat{A} \hat{V}_{\beta} \text{ g wBL} \zeta \text{ " } A \text{ !} ; V_{\beta} \setminus L \text{ \textless } \hat{E}^* \cdot$$

$$\text{œ} \frac{k}{k_0} x_{\beta} \alpha_{\beta} | x \text{ | } ^{\alpha \beta} x_x + \frac{\rho_{\beta}}{k_0} \text{ sig}^{\gamma} \text{ %} \text{ 0} \text{ o} + a_{\beta} \text{ %} \text{ 0}$$

$$\text{ \textless } A \text{ 6}^* \text{ y } \text{ " } \text{ ' } \text{ " } s_{li} \text{ " } \Delta_{ri} \text{ œ} \text{ 6}^* \text{ y } \text{ %}$$

$$\pm \text{ EM} \hat{A} \text{ f} \text{ U} \text{ q} \text{ ü} \text{ ç} \cdot \text{ ù}^* \cdot \text{ g}$$

$$V_0 = \frac{\beta}{0} s_{li}^0 \text{ %} \text{ 0}$$

$$\text{ %} \text{ 0} \text{ o} \text{ < } Z X \text{ 6 } \neq \lambda_i \sigma_i \text{ o} \text{ g } 4 \pm \text{ M! } \text{ " } A \text{ c} \text{) , } \text{ g} \# \text{ p}$$

$$\& \text{ %} \text{ 0} \text{ o} \text{ < !} \text{ o} \text{)}$$

$$\hat{V}_0 = s_{li} s_{li} \text{ j } \text{ %} \text{ 0} \Delta_{ri} - \hat{\Delta}_{ri} \sigma_i \text{ o} | s_{li} | -$$

$$\text{ N } 4 \pm \hat{O} \text{ c } \text{ " } Q \text{ ç } \text{ T } \text{ g } \text{ %}$$

$$\text{œ} \text{ b}_{\beta} \neq \lambda_i \sigma_i | \lambda_i + \beta - b_0 s_{li}^0 \text{ j} \text{ !} \text{ %} \text{ 0}$$

$$\text{ f \textgreater } 7 \text{ E } 3 \text{ } \frac{1}{2} \text{ " } 4 \text{ ' } X \text{ 0 } \text{ h} \text{ (} \text{ \textgreater } \text{ y } 3 \text{ 0} \text{ œ} \text{ \textless } \pm 6 \text{ K} \text{ \#$$

$$\text{ * } \wedge \text{ %} \text{ 0} \text{ x} \text{ o} \text{ < } - \hat{\Delta}_{ri} \text{ %} \text{ 0} \text{ > !} \text{ " } \Delta_{ri} = \sigma_i | s_{li} | \text{ !} \text{ " } F$$

$$\text{ K! } \text{ c } \text{ ^ } \pm \text{ EL3} \text{ 00} \text{ \# p N} \text{ \textless } \text{ \textgreater } 3 \text{ i } \text{ æ} \text{ > c} \text{) , } \text{ " } \zeta$$

$$\hat{\Delta}_{ri} \text{ %} \text{ 0} \text{ > } \hat{\Delta}_{ri} \text{ %} \text{ 0} \text{ > !} \text{ %} \text{ 0} \text{ !} \text{ o} \text{ " } \in \hat{\Delta}_{ri} \text{ %} \text{ 0} \text{ B} \text{ à } L \text{ T } A \text{ } \sigma_i$$

$$\text{) } 3 \text{ 0} \text{ %}$$

$$\text{ \$ } B \text{ à}$$

$$\sigma_i \frac{\sqrt{s_{li}^0 \text{ %} \text{ o} + \hat{\Delta}_{ri}^0 \text{ %} \text{ o}}}{\hat{\Delta}_{ri} \text{ %} \text{ o}} + \beta \text{ %} \text{ 0} \text{ o}$$

$$V_{\beta} = \frac{\beta}{0} s_{li}^0 \text{ %} \text{ 0}$$

$$\text{ 0 } \hat{\Delta}_{ri} \text{ %} \text{ 0} \text{ > } \hat{\Delta}_{ri} \text{ %} \text{ 0} \text{ > !} \text{ %} \text{ 0} \text{ !} \text{ o} \text{ " } F$$

$$\& \text{ %} \text{ 0} \text{ o} \text{ < !} \text{ o} \text{) } \hat{A}$$

$$\hat{V}_{\beta} = s_{\beta} s_{\beta} \text{ %} \text{ 0}$$

$$\Delta_{ri} - \hat{\Delta}_{ri} \sigma_i \text{ j } \sqrt{s_{li}^0 \text{ %} \text{ o} + \hat{\Delta}_{ri}^0 \text{ %} \text{ o}} - \hat{\Delta}_{ri} \text{ %} \text{ 0} \text{ j}$$

$$3 \text{ %} \text{ 0} \text{ o} \text{ < } 1 \text{ %} \text{ 0} \text{ o} \text{ < } \text{ ' } \text{ %} \text{ 0} \text{ x} \text{ o} \text{ < } \hat{A}$$

V_ß = s_ß s'_ß = - ρ_ß / x_ß

*^ »

± ρ_ß / x_ß = { s_ß > ! / - s_ß < !

m

s_ß s'_ß = - ρ_ß / x_ß | s_ß | γ_ß + β

*^ » c) Kcâ x_ß > ! ρ_ß > !

s_ß s'_ß = - ρ_ß / x_ß | s_ß | γ_ß + β < !

r 2(4 'ã .] D#pNL • %

f > %o o < - V_ß < ! "E 59 - V_ß %o 6 *y %*^ ÂfUüç•ù' Ç T)3 @ç - "2(4 #=E / Ç " #pNL • s_ß 6* L U 6K} #K! c ^ g !%

2(4 'ã . !i #pNL • DýÔ # Dë] c ^ " " #2(4 'ã . g

k_ß x + k_ß x_x + k_ß = s_ß = ! %x! o ' # 'ã . æ/8 =.g g

x_x = - k_ß / k_0 x - k / k_0

E6 ÂfUüç•ù* • g

V_0 = β / 0^0

& %x0o < !o) Ä

V_0 = x x' = x x_x

3 %xß0 < ' %x o < Ä

V_0 = x x' = x x_x = - k_ß x^0 / k_0 - k / k_0

ææf > %x0o < - V_0 < ! "E 59 - V_0 %o 6 *y " 2(4 'ã . x U 6K} #K! c ^] - Ç g %

E - ' Ä]

| x_x | j k_ß / k_0 | x | + k / k_0 | x | α_ß + β

û %x" o < Ä "2(4 'ã . x_x U 6K} #K! c ^] - Ç g %

*^ ÂfUüç•ù' Ç T)3 @ç - "2(4 #=E / Ç " € t > # "x !%

∫ x = q_ed

ææ*^ %x o < Ä "2(4 X0 >ó3i >ÿ - 3õ c ^]

q_ed %7 ' " Ç)3 @1 %

&c59 " 4 ±M! G BB±(4 ±±Ä \ K MÄ' - Ä) f +±DÐª Ô*LL48Ž(ÝÁŽ" ' Y ' Fô*UNŽ' * • , c) , Z±± 4 ±M! %8 L•4 ' NŽ' * •

UW_ß0 = { s_ß / k | s_ß | < k / - s_ß | s_ß | > k

< Z "k = ù ç w > ! \ - WL < e < ±i % ,8 ' " € | s_ß | > k # " UW_ß0 = ± ρ_ß / x_ß ' *UNŽ' * • , 0S\$ * • ; ±c) , : ž ú c ^ u É % #Ž± >ó3i Ô > c) , @ @ Î

E6 L<3i T EL3õ #pNL •

s_0 = l_ß x_n + l_0 x + l

< Z

l_ß > ! "l_0 > ! "l > ! " ± ρ_0 / x_0 = | x_n | α_0 ± ρ_0 / x_0 E6 o NB_ßp_ß - 8

s_0 = - ρ_0 / x_0 ± ρ_0 / x_0 > ! "γ_0 > !

& #pNL • %x o < !o) Ä

s_0 = l_ß x + l_0 x + l α_0 | x_n | α_0 - β x

*^ %x o < 1 %x o < Ä

l_ß x + l_0 x + l α_0 | x_n | α_0 - β x = - ρ_0 / x_0

3 %o o < Z x æ/8 S ' %ß0 < Ä

a_xß = l_ß / l_0 x_ß x' + l_0 x' x' + q_ß + q_ε -

æ l_ß x x' = q_ε + l / l_0 α_0 x_ß x' | x_n | α_0 - β x' +

æ ρ_0 / l_0 ± ρ_0 / x_0 + a_ß

f > 7 L • ± ± 1/2 "4 ' Ç)3 %

Ç)3 úæ & » c) 2(4 %ß o < "E6 #pNL • %x o < 1 B_ßp_ß , %x o < m @ @ ± c) , - %ß0 o < m.g %

@î; æE6 ÂfUüç•ù* • g

V_ß = β / 0^0

& %ß o < !o) Ä

V_ß = s_0 s'_0

3 %x o < 1 %x o < ' %ß0 o < Ä

$$\dot{V}_B = s_0 \dot{s}_0 = - \frac{\rho_0}{x_B} \cdot \frac{d}{dt} (x_B s_0) \quad \%'' \text{ o}$$

ææef › %œxœ< - Ṃ_0 < !"E 59 - V_0%œ6*y " 2(4 'ã . x_n U 6K) #K! c ^] - Ç g % E - ' Ä]

$$\frac{d}{dt} (x_B s_0) = \begin{cases} s_0'' & s_0 > ! \\ -s_0'' & s_0 < ! \end{cases} \quad \%'' \text{ o}$$

| x | j $\frac{l_B}{l_0} | x_n | + \frac{l_B}{l_0} | x_n |^{\alpha_0+\beta}$ %'' o

$$\frac{d}{dt} (x_B s_0) = |s_0| \quad \%'' \text{ o}$$

û %'' o< Ä "2(4 'ã . x U 6K) #K! c ^] - Ç g %

$$s_0 \dot{s}_0 = - \frac{\rho_0}{x_0} |s_0| \gamma_0^{\beta} \quad \%'' \text{ o}$$

*^ Ä f U ç ü ç ù Ç T)3 @ç - "2(4 #=E / Ç " € t > # "x_n !"

$$s_0 \dot{s}_0 = - \frac{\rho_0}{x_0} |s_0| \gamma_0^{\beta} < ! \quad \%'' \text{ o}$$

Ä "2(4 X0 >ó3i >ÿ - 3ö c ^] q_{\beta d} % 7 ' "Ç)3 @1 %

r 2(4 'ã .] D # NL • % 2(4 'ã . !i #p NL • Dý Ö7 c ^ " ' # 2(4 'ã . g

ú† , ,L 3 ½

$$l_B x_n + l x + l \cdot \frac{d}{dt} (x_B s_0) = s_0 = ! \quad \%'' \text{ o}$$

g ³ O¹@ÿ ' ý ' ±| 9 c) 0Ä" "@@î³ Ç) f | 9 h (P ELT g ÖDýÖ, 4 ± %œ E g æ" , ,L Ž # @, - 8 á

$$x = - \frac{l_B}{l_0} x_n - \frac{l}{l_0} \cdot \frac{d}{dt} (x_B s_0) \quad \%'' \text{ o}$$

X c) J ø # h ") f ¹, 4 ± ± i • - • ß m .g %1) f ý È ± > ó3i æ > - T Í EL Ó g 0" g " > ó 3i 3â > ¹ Ô > - T Í EL Ó t g " ! g ", 4 U > ó3i Ô > ¹ > ó3i 3â > g Ö Í EL Ó 3 X g Ö g á_ε = ß ! g " α_β = ß ! g " , ,L ' J- ! !! ß %) B a , g á_1 = " !] " Ç) f x K! + ± E @ Ü 4 g Z c = ! " ß " ß + ß " ! " ß + ß " ß " ! Ò % - Kb = • .g U X c) D ð 8 Z " 1 W) f x K! + ± E @ Ü 2(o %

E6 Ä f U ç ü ç ù * • g

$$V_0 = \frac{\beta}{0} x_0^0 \quad \%'' \text{ o}$$

& %œ 0 œ < ! o) Ä

$$\dot{V}_0 = x \cdot \dot{x}_n = x \cdot x \quad \%'' \text{ o}$$

3 %œ ß œ < ' %œ œ < Ä

$$\dot{V}_0 = x \cdot \dot{x}_n = x \cdot x = - \frac{l_B}{l_0} x_0^0 - \frac{l}{l_0} \cdot \frac{d}{dt} (x_B s_0) \quad \%'' \text{ o}$$

= Ö†) f ¹, 4 ± ± J ø Ž # ÷ 1 f L H > ó3i > ÿ

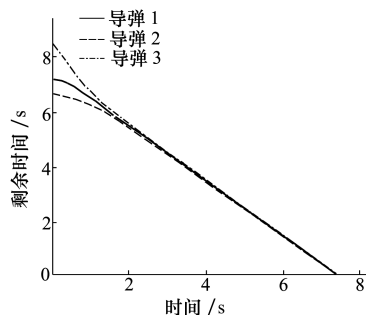
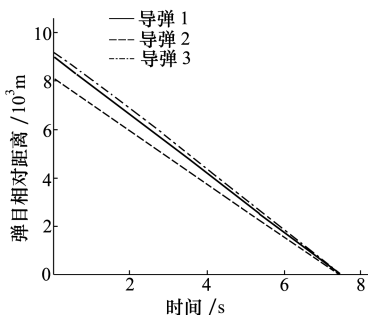
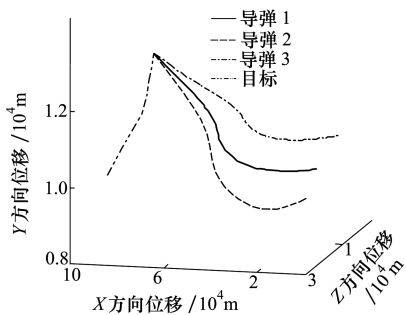
Ë €	z 4, ð	EL Ó Ø % ¼ q_β o f E € k > ÿ Ø % o	f E € > ÿ Ø % o	L H > ó3i k > ÿ Ø % o	L H > ó3i > ÿ Ø % o
) f ß % ß !!! " ß !!! " ß !!! o	!!	ß!	ß"		
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, 4 % ß !!! " !!! " ß !!! o	!!	ß !	!		

ææœc) , , ,L i • - 8 á > ó3i æ > ä_θ_i = ! " " σ_i = ß " " b_β = " λ_i = ! " b_0 = 0% > ó3i 3â > ä_β = ! " " k_0 = ! " k = ! " " α_β = ß " γ_β = ! ! " " ρ_β = "% > ó3i Ô > ä_β = ! " " l_0 = ! " l = ! " " α_0 = ß " γ_0 = ! ! " " ρ_0 = "%

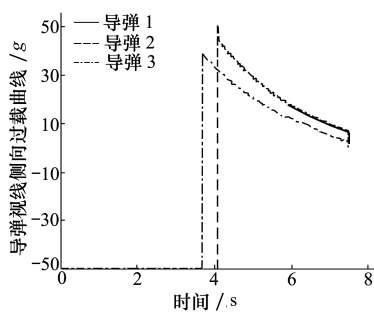
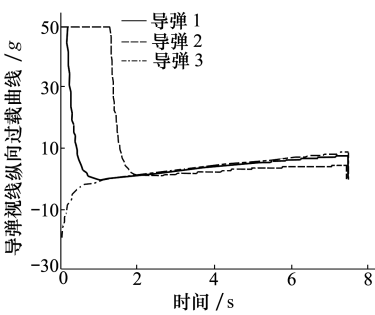
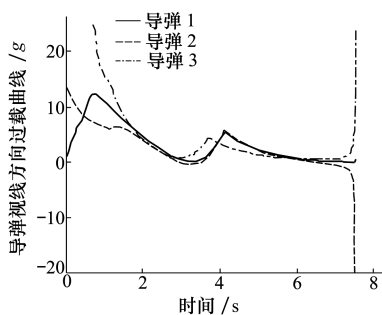
f › 7E , ,L Ž # ; , ,L i • " , ,L 4 É - m + 02+ ® m.g % ^ + 07 + x , 8 ' " μ & P EL T g ÖDýÖ, 4 " Y ´ ± ± 64! | 9 c) , Z " Ç) f { U 9 - # K! ²] Dë 4 % ' C " f › + x - " U ´ Z 4 ' ± ± 6K) # K! - 7! T | @ Ü " Ç) f ± ± X c) - † # K! 6* L U T 3 Ó B, » - 7! % + "

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 ' m@ @†±6K} #K!#pN) B , lµ &P ELT g Ō,
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O œ œ (#) " ´) " (, i 9 : Ž O ! ʒ œ i * C / Œ / Œ) f ɸ , Ö . - A / £ . Ö Œ W Œ ɸ • " O ! ʒ % œ o à K

• 6 ¶ X ± ± " ü 6 ¶ Å = " ü ö ¶ H î = i q = ʒ k Ž • U Œ d • ʒ è • ɸ = ʒ k w ʒ ɸ = X = = Ö Œ • q] ʒ w = ʒ O ! ʒ . Ö Œ ö ɸ ü U ɸ ʒ ɸ " O ! ʒ % œ o à K % œ d = ɸ o

Ö œ P | ; 8 " A • D è " { D y D î Ž G f | 9 W 4) E ; , H . Ö Œ W Œ " Ö " O ! O ! " x ʒ % È 7 ʒ o à O K

ü 6 ɸ X = ʒ k f = ʒ k " ɸ ; d ʒ k U Å ç _ ü ʒ @ ʒ k Ž • ù = U ʒ è ü w ʒ Ö Œ • q] ʒ w ! X ü w ʒ X = = • • ɸ = ʒ U w ʒ ʒ w œ u q w ʒ ʒ . Ö Œ ö ü w ʒ
ö ɸ ʒ U Œ w ʒ U w ö w ʒ ʒ U Œ w ʒ U i = ʒ U O ! O ! " x ʒ % ü q ʒ o à O K % œ d = ɸ o

x Ö œ O T ʒ : " (L U " 3 x È Ž G) f h (# K ! 1 h (> y Ó | 9 c) - A / £ 4) E . Ö Œ N 7 W) f " O ! ʒ % œ o à K

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ö ʒ k . Ö Œ ö ɸ f ʒ U ʒ = X = = . ü ʒ U " O ! ʒ % œ o à K % œ d = ɸ o

" Ö œ (' L • " { 3 " B ɸ D ¶ " O v Ž G) f | 9 c) , 4) E . Ö Œ N = y È " " O ! ʒ ʒ 0 % œ o à K

ü ö ¶ H . ± ʒ @ ʒ k " Å ç è U ʒ " ; @ . ± ʒ d ü = w U Ž i ü] U ʒ f • i H ü = U ʒ U Å U > U) • ʒ • • q ʒ U Œ ö w ʒ ʒ • i X ü w ʒ X = = X w ʒ)
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Ö œ @ 6 i " ü ö ¶ H ü " ü ö ¶ H . Ž Ö = ù ɸ w K ʒ i ü q ɸ = w ʒ k H ü = U ʒ U Å U = ù ö ü w ʒ ʒ è U Œ w • ʒ = ʒ U ʒ . Ö Œ ö ʒ ʒ • ü ʒ U
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@ Ö œ F • (¶ " M ! è * Ž ' » E L L < t / 3 6 0 # ɸ N ± ± G f | 9 c) , @ @ Í . Ö Œ W Œ ɸ • " O ! O ! " O ʒ % œ o à O K

H ; d ʒ k f ü " @ ʒ ; d k ü • Ž X ü w ʒ X = = • • q ʒ U Œ H ü = U ʒ U Å U Ö ʒ k > U) • ʒ è U w ¶ • ʒ k = ʒ k U U ʒ ʒ ʒ U i = ʒ k
X •) . Ö Œ ö ɸ ü U ɸ ʒ ɸ " O ! O ! " O ʒ % œ o à O K % œ d = ɸ o

Ö œ E 5 " @ € Ç Ž h (> y 3 Ó Ç E G W f | 9 c) Ô c - € C - A / £ . Ö Œ - D G T " " Ö " O ! ʒ " @ ʒ % œ o à O ʒ K O

Å ç î ± ʒ k " Å ç ¶ H î ± ʒ k ʒ k ʒ w ʒ k d w ʒ H ü = U ʒ U U ʒ • ʒ w ʒ • i X ü w ʒ ʒ w œ u q w ʒ = ù d ʒ q U Œ w ö ʒ k • ʒ w ʒ ʒ w
• ʒ = ɸ • . Ö Œ • ü ʒ U • i ¶ • w ʒ w ʒ è • f w Œ d ʒ = U ʒ ʒ ʒ ɸ = ʒ " O ! ʒ " @ ʒ % œ o à O ʒ K O 0 % œ d = ɸ o

Ö œ Å ç H " ö ¶ @ " . ç @ Ž Ö H ü = U ʒ U Å U = ù è = ʒ w ʒ ʒ • ʒ U ʒ k ʒ U • ʒ = ʒ k ö ü w ʒ = w Ö f ʒ U ʒ = ʒ U ʒ ʒ U ʒ w ʒ ʒ w ʒ
w ʒ U ʒ ʒ U • ü ʒ U • i • ʒ w ʒ " ö ü w ʒ U ʒ ʒ U ʒ i f w] " O ! ʒ x " ʒ 0 % œ o à ʒ ʒ ʒ ʒ ʒ ʒ ʒ

ʒ ! Ö E ÷ " P ´ - " (' B 2 Ž ' » P Ü W A " ± ± c) % T U f | 9 X c) 3 ½ . Ö Œ) f ; 7 W W D y D 3 - \ " O ! O ! % œ o à ʒ K "
Å ç Å = H ö ü ʒ ʒ ü ö ¶ H . ± ʒ ü d U Ž • • q ʒ U Œ ʒ ʒ U H ü = U ʒ U ö ʒ U f = • i H ü = > • • ü w ʒ X = > U) • ʒ H ü è ü k
) • K q ü w U X w ʒ) . Ö Œ X = = U ʒ i q U Œ A E d = " O ! O ! % œ o à ʒ K " % œ d = ɸ o

ʒ ʒ Ö @ 6 i " ü ö ¶ H ü " ü ö ¶ H . Ž ö) U ʒ w ʒ > U Œ w q q = ʒ k ʒ q U Œ w ö ʒ k • ʒ w ʒ = ù ö ü w ʒ = w Ö f ʒ U ʒ = ʒ U ʒ ö ü Œ ʒ U ʒ i U Œ w ʒ ʒ
• ʒ = ʒ U ʒ • . Ö Œ ʒ w ʒ U ʒ ʒ U • ü ʒ U • i • • & ü w ʒ U ʒ • ʒ = ʒ U ʒ • ʒ w ʒ " O ! ʒ ʒ O ʒ % œ o à @ ʒ K @

ʒ ʒ Ö Å ç > " Å ¶ Ö " ü ö ¶ H @ Ž è = ʒ w ʒ ʒ • ʒ U ʒ k ʒ U • • q ʒ U Œ H ü = U ʒ U Å U > U) • ʒ H ü d d • ʒ . Ö Œ q w ʒ K ʒ w ʒ U ʒ ʒ U
. ü ʒ U ! • ɸ Å k d w U ʒ ʒ 6 ü w ʒ ʒ q w ʒ " O ! ʒ " ʒ 0 ʒ % œ o à ʒ ʒ ʒ ! K ʒ ʒ

ʒ Ö . 6 ¶ ɸ " Å 6 6 . " ö @ y X Ž ʒ q U Œ w ʒ ʒ K • ʒ w ʒ H ü = U ʒ U Å U ! • ɸ ö ʒ w ʒ k d = X = = . Ö Œ ʒ 6 6 6 ʒ ʒ • ʒ • ʒ w ʒ i f w] ü d K
ʒ • • k f " O ! " ʒ x % œ o à O ! K O

ʒ x Ö Å 6 6 . " . 6 ¶ ɸ " ö @ y X Ž H ü = U ʒ U Å U w • ʒ w ʒ ʒ q U Œ w ʒ ʒ U ʒ ö ʒ k . Ö Œ ʒ 6 6 6 ʒ ʒ • ʒ ö ɸ q U Œ U ʒ ʒ 6 ü w ʒ ʒ = i f K
w] " O ! ! @ x % œ o à ! ʒ K ʒ !

ʒ Ö ; @ . " ö ¶ H . Ž Ö = w ʒ Œ w ʒ H ü = U ʒ U Å U Ö ʒ k ! • ɸ • • q ʒ U Œ i ʒ ü w ʒ • ü ö w ʒ ʒ = ù X ü w ʒ X = = . Ö Œ • ü ʒ U • i
H ü = U ʒ U " • ʒ w ʒ " U ʒ Ö f ʒ U ʒ = " O ! ʒ " % œ o à O x K O x x x

ʒ Ö M ɸ ¶ " O T M P " (, i Ž G) f # K ! | 9 c) â . ú M 3 f K ʒ M 3 f O f " . Ö Œ W Œ " Ö " O ! " ! % œ o à ʒ ʒ ʒ ʒ ʒ ʒ ʒ
; @ ʒ ¶ H _ • ü U ʒ " X ö H ü = ʒ U ʒ " ü ö H ¶ î = ʒ k q = ʒ k Ž ʒ K • • q ʒ U Œ H ü = U ʒ U ! • ɸ X ü w ʒ X = = à ö Å U ʒ è • • ɸ i w ʒ U ʒ k f . Ö Œ
ö ü w ʒ ö ɸ ʒ U Œ w ʒ U w ö w ʒ ʒ U Œ w ʒ U i = ʒ U O ! " ! % œ o à ʒ ʒ ʒ ʒ ʒ ʒ % œ d = ɸ o

ʒ Ö ; @ ; @ i _ " ; @ • " @ ʒ ¶ ü Ž Ö ʒ k • i ʒ K • ʒ w ʒ ʒ H ü = U ʒ U Å U ü U A E w ʒ U Å U ɸ ö q q U Œ d . Ö Œ d = ʒ • ü ʒ U
• i ö ɸ ʒ U Œ w ʒ " O ! ʒ " O % œ o à ʒ ʒ ʒ K ʒ

ʒ Ö ; @ ʒ ¶ H _ " ü ö ¶ H î " X ö H Ž ʒ q U Œ w ʒ ʒ • ʒ w ʒ H ü = U ʒ U Å U = ù Å U ʒ k ʒ q U Œ w ö ʒ k • ʒ w ʒ ʒ w . Ö Œ • ü ʒ U • i ö ɸ q U Œ
6 ʒ k = ʒ k " O ! ʒ " O 0 % œ o à O ʒ ʒ ʒ K ʒ ʒ ʒ

