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U ' » K'g Ò ' ±± %Z " ' ([ÒÑÁu ý '
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 % " ý ' 3 - .ú E/*U » G" CÉÇ > 4~4 ± ± K'g Ò

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 Èè 7 %æ 2 7 %æ z 1 7 %æ .è 0v æ " 59 AE
 L->@ CW Èè 7 %æ ± ± Cè p # KÆ . " ù 59-> Ç

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 " " f) G Í L-lo Ö . 3 Fz # KÆ V • % ' ([Ò Ö Ö E
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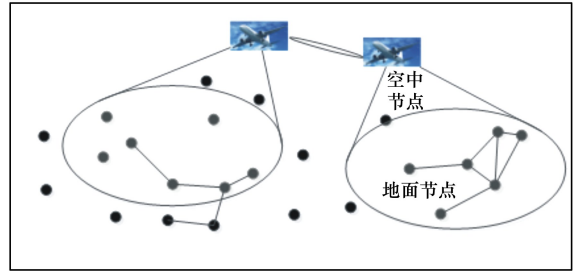
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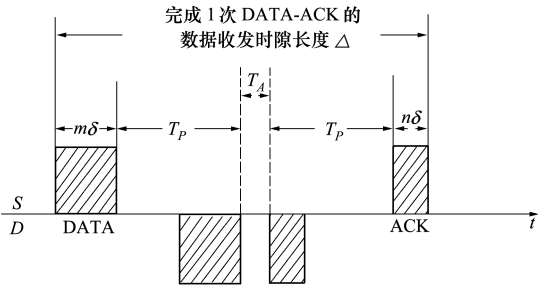
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+ 0œÖö öK6 ý N < ·) MDÀg < +

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g 3i \$ M Ú ± ± E L Ó ð pi g v E L O % ' " Ä Ö i ± ± # J -

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$$\mu) \sigma_p + C = \frac{Q_{SD}}{c} + C$$

< Z " C = % 0 + n δ g e · %

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$$T_p^i = \frac{R}{c} \text{ " Ö ö ö K 6 ý ± ± # KÆ - Ó g$$

$$\Delta^i = \frac{QR}{c} + C$$

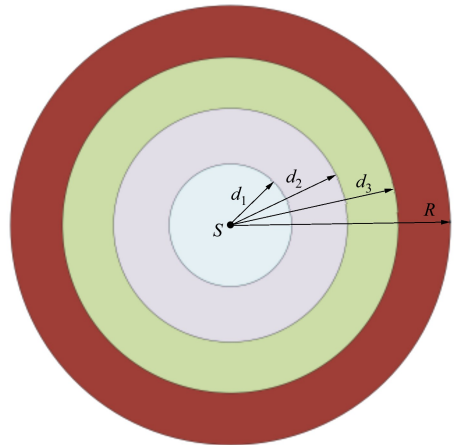
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† ' » J + C C . è 3 (Ü ± ± G m Ò ' | @ Û

l μ & E G # # - , K M Á " U M 4 ± ± Ö X ö G m Ò ' | @ Û - m 7 " Y ' ý ' - . ú ' » J + C C . è 3 (Ü ± ± G m Ò ' | @ Û Ä Ö Ö K Ö X ö %

Z † ' Y J

Ä Ö Ö K Ö X ö ± ± ' Y J - 8 m E ä N Ä u " 3 ð g ·) # 1 / 7 % æ % 0 Ç > Z 4 N g o " w ± ± g Ç > V 3 i ± ± E G 8 0 ! R " - > Ç A # 1 / 7 % æ ± ± 3 · E G g A & c ; " ú 7 % æ g 3 ð " 0 w ± ± g d_B " d_0 " - " d_K " ! = d_1 < d_B < d_0 < - < d_K < d_{K+B} = R " F 3 g A ? 3 g β W w ± ± g d_B ± ± 3 · g " 1 w ± ± 3 X g d_0 " - " d_K " d_{K+B} ± ± K W Ü · g + Ò , m " @ ð Ä Æ Ä] J + C C . è d_B " d_0 " - " d_K " d_{K+B} m & Á ± ± 3 i \$ M Ú # # T_p^B " T_p^0 " - " T_p^K " T_p^{K+B} " £ Z T_p^K = d_K / c " β j k j K + β + 3 T_p^B " T_p^0 " - " T_p^K " , T M < % ö o Ä A M Ú # # & Á ± ± Ö i # K! J - Ó M β " M δ " - " M_K δ " M_{K+B} δ " £ Z M_K δ " β j k j K + β " & Á J + C C . è T » d_{k-B} 5 9 < » d_k ± ± Ü · % C 3 · " € k = β # o g + ; " - É , ± ± 7 % æ z » 0 Y k W Ü · " F # 1 / 7 % æ - * U # K! J - Ó g M_k δ ± ± # KÆ , ± ± 7 % æ E = y ·) M D À % + 4 ' 3 & # 1 / 7 % æ ± ± E G g A E = y 3 (Ü ± ± g < + + ' # K = " , 8 ' # 1 / 7 % æ ± ± E G g A " = Ø ? 3 g - W d_B g w ± ± ± 3 · " 1 W 3 X d_0 " d_1 R g w ± ± ± (Ü · %



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8L • "4 ' ÂÖÖK ÖXö | @Û : 9Kcâ m¹ =
 ++ì 6* " ÷ £ ± € ± ± %ñn/8 %

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 - "d_K"! = d₁ < d_B < d₀ < - < d_K < d_{K+ß} = R" &]
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 ± ++3 • 1 K W(Ü • %€ 3(Ü i • g

$$\left\{ \begin{array}{l} d_B = \frac{0}{-a_B} d_0 = a_B d_0 \\ d_0 = \frac{0}{-a_B} x = a_B d \\ \text{ææÉ} \\ d_k = \frac{0}{-a_{k-\beta}} d_{k+\beta} = a_k d_{k+\beta} \\ \text{ææÉ} \\ d_K = \frac{0}{-a_{K-\beta}} R = a_K R \end{array} \right. \quad \%o$$

"ÂÖÖK ÖXö ++ t #KÄ- ÓDè] - < i %

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C C .è ,%€ » EG C .è R %59 U ÂÖÖK ÖXö Z "Λ
 » Fô*U 3 (Ü ++J "€ #½ ; , ++7-%æ EG # "mFô
 *U++ Öi J- Ó g A , ++7-%æ an z » ++(Ü • ++w ±
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 g t - F 4ÿ" ' ü W(Ü • g ² ++7-%æ W • g

$$\left\{ \begin{array}{l} N_B = \frac{A_B}{A} N = \frac{d_B^0}{R^0} N = \frac{d_B^0}{R^0} N \\ N_0 = \frac{A_0}{A} N = \frac{d_0^0 - d_B^0}{R^0} N = \frac{d_0^0 - d_B^0}{R^0} N \\ \text{ææÉ} \\ N_k = \frac{A_k}{A} N = \frac{d_k^0 - d_{k-\beta}^0}{R^0} N = \frac{d_k^0 - d_{k-\beta}^0}{R^0} N \\ \text{ææÉ} \\ N_{K+\beta} = \frac{A_{K+\beta}}{A} N = \frac{R^0 - d_K^0}{R^0} N = \frac{R^0 - d_K^0}{R^0} N \end{array} \right. \quad \%o$$

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 S - E ++Eè7-%æ @DÄ++ ' "#17-%æ ; £ • Dæn
 6Eè7-%æ ± t C .è = @DÄg

f %d_B "d₀" - "d_K o =

$$N_B \times d_B + N_0 \times d_0 + - + N_k \times d_k + - + N_{K+\beta} \times R =$$

$$\frac{d_B^0}{R^0} d_B + \frac{d_0^0 - d_B^0}{R^0} d_0 + - + \frac{d_k^0 - d_{k-\beta}^0}{R^0} d_k + - +$$

$$\frac{R^0 - d_K^0}{R^0} R = \frac{\beta}{R^0} \text{R} - d_k d_{k-\beta}^0 \quad \%o$$

ææg ³ @DÄ- E ++(Ü • i • d_B "d₀" - "d_K "NÄu!o
 f %d_B "d₀" - "d_K o & d_B "d₀" - "d_K ++ |) " Ä

$$\left\{ \begin{aligned} f'_{d_{\beta}} \%b_{\beta} "d_0" - "d_K \circ &= \frac{\beta}{R^0} \%al_{\beta}^0 - Ql_{\beta} d_{\beta} \circ \\ f'_{d_0} \%b_{\beta} "d_0" - "d_K \circ &= \frac{\beta}{R^0} \%al_0^0 - d_{\beta}^0 - Ql_{\beta} d \circ \\ &\text{É} \\ f'_{d_k} \%b_{\beta} "d_0" - "d_K \circ &= \frac{\beta}{R^0} \%al_k^0 - d_{k-\beta}^0 - Ql_k d_{k+\beta} \circ \\ &\text{É} \\ f'_{d_K} \%b_{\beta} "d_0" - "d_K \circ &= \frac{\beta}{R^0} \%al_K^0 - d_{K-\beta}^0 - Ql_K \circ \end{aligned} \right.$$

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$$\left\{ \begin{aligned} f''_{d_{\beta}} \%b_{\beta} "d_0" - "d_K \circ &= \frac{\beta}{R^0} \%al_{\beta} - Ql_0 \circ \\ f''_{d_0} \%b_{\beta} "d_0" - "d_K \circ &= \frac{\beta}{R^0} \%al_0 - Ql \circ \\ &\text{É} \\ f''_{d_k} \%b_{\beta} "d_0" - "d_K \circ &= \frac{\beta}{R^0} \%al_k - Ql_{k+\beta} \circ \\ &\text{É} \\ f''_{d_K} \%b_{\beta} "d_0" - "d_K \circ &= \frac{\beta}{R^0} \%al_K - Ql \circ \end{aligned} \right.$$

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	!	!R	!	"®	!	®R
x	!	®®	!	×R	!	R
"	!	®R	!	R	!	"®
	!	®R	!	R	!	®R
	!	®	!	®R	!	®
	!	®R	!	®	!	®R

3=• ßZ : 9 3(ÜW• & Á±± t C.è f%bβ"
 d₀"-dₖo '™<%o" Ä] & Á ÄÖÖXö
 | @Û± t #KÄ-Ó

$$\Delta_K^{\text{ÄÖÖXö}} = \frac{f'_{d_0} \%b_{\beta} "d_0" - "d_K \circ}{c} + C$$

û59 @ÐÄÄ] ÄÖÖXö | @Û± & » i | @Û±
 ±±Ë±±

$$\eta_K = \beta - \frac{\Delta_K^{\text{ÄÖÖXö}}}{\Delta_i}$$

' C"û=• ß ÄK½(ÜW• ±±ËT"J+C t C.è
 ü < %Ç)3 04 ' ³ ∈ 3(ÜW• K B, » > # "J+C
 C.è±±- < i %

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 • g f%o= $\frac{Q}{R^0}$ z â !"t Ò%

$$\&f\%o! / 3 " \text{Ä N W7}\%æ \# 1/7\%æ C.è$$

±±L H g 6%o = $\frac{\ddot{U}}{z} \%o z = \frac{\ddot{U}}{z} \frac{Q}{R^0} z = \frac{Q}{R} \%$
 @1 %

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 ÄÖÖXö | @Û Öi±± t J-Óg

$$\Delta_K^{\text{ÄÖÖXö}} = \frac{xR}{c} + C$$

œœ∈ C g e • # " #1/7%æ±± Öö ö • › MDÀ
 #K!; , ±±7%æ±± ö ý MDÀ#K! x¹ g e • # "
 ÄÖÖXö | @Û i | @Û± "U ü W• › c ð
 #KÄ±± t Ë±±g

$$\eta = \beta - \frac{\Delta_K^{\text{ÄÖÖXö}}}{\Delta_i} = \frac{Q}{R + C \times c}$$

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 › c ð #KÄ±± t Ë±±B•' B• < %

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x	Ū Ž	Ū Ž
"	Ū Ž	Ū Ž
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^ TM< %o o !o ' 3(Ū mS ' +‡)3 @çT6 Ē
+÷" = 0 m.g %o= 04 ' 3 ∈ R %o!! '] "C %
!Ž!B # "3(Ū W• 3 X g 02" " ÷ 3(Ū W• B,
» > #+‡3(Ū Ē+÷% ū = 0 - "K¼3(Ū W• +‡Ē
T "3(Ū mS ' +‡)3 @çT6* Ē+÷ Ē T % ∈ R %o!! '] "C
%Ž!B # "3(Ū W• g x# mS ' +‡3(Ū Ē+÷";
3(Ū W• g " # mS ' +‡3(Ū Ē+÷ 3 ū ÒDp" = ;
E - ' +‡Ē Ē 3(Ū W• " mS ' +‡3(Ū Ē+÷ Ē Fū j
< %

¼ , ,L T6* 3 ½

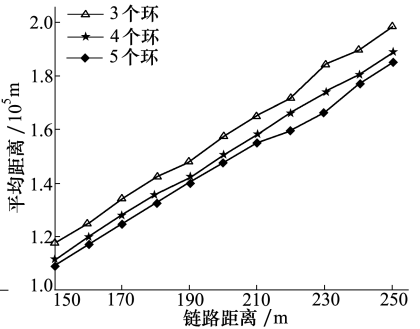
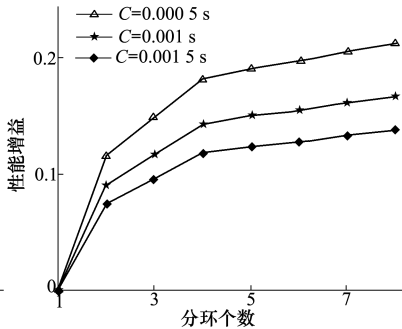
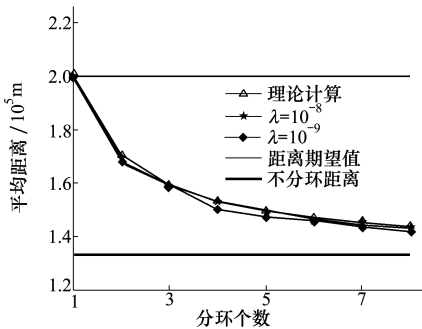
U Xö Âö> Z Z ' ³ , ,L " £ ; M4 +‡
ÖXö | @Ū iE=y³ , ,L &! "O¹@i³ 3(Ū OÄ"
mS ' +‡T6* Ē+÷% @¼ Z ž 6 N W7-%æ ó
Óg λ +‡÷ « %æ 08 " = ç 4YU w ± R = 0!! '] +‡
3 • ² +ç >N g Z4 7-%æ ç 4YU 3 ð "- TEG
w ± g R % ' # " 3i \$ +‡- E M Ú # E g
0x 0!! '] = β] %@ëÖö ö ; ö ý +‡ • › M
x β] ð
DÄL(' g 0 X&ð " Öö ö J-Óg 0x! >" ö ý J-Óg

Ū >" F Öö ö • › MDÄ#K! ; , +‡7-%æ ö ý M
DÄ#K! x ¹ g β! Ū" " C = β] %

+ x4 ' ³ : 97-%æ Ó % = β- ¹ λ =
Ū- o ö â 8 "U4 ÇR = 0!! '] ¹ C = !!!β # "
: 9 3(Ū W• & Á+‡ t J+C C.è ÷ - < 3(Ū
t J+C C.è " £ Z e: 3(Ū C.è | g M4 +‡ i |
@Ū ū + x Ä " , ,L4 É ;)3 @ç ¼ ¼ É % > i =
0o, %h 5 "O¹@i³)3 @ç ¼ +‡ • - › T + ' C " ;)3 @ç
3 ½ - 7! "4-4 Z +‡7-%æ Ó λ ¹ 7-%æ W• N & 3
(Ū t J+C C.è { !Ī 6 ž ū +K¼m 3(Ū W• +‡Ē
Ī "J+C +‡ t C.è E# = ū < " £ B, Dp »)3 @ç
K) %

+ "4 ' ³ 7-%æ Ó λ %Ū" ¹ R %o!! '] :
9 • › MDÄ#K! C % %d Ž! ! " "C %d Ž!B "C %o
!Ž!B " o8 " : 9 3(Ū W• mS ' +‡ ÄÖÖ ÖXö
| @Ū i, %d +‡T6* Ē+÷ 3i % ū + " - "K¼
,m 3(Ū W• +‡Ē T " ÄÖÖ ÖXö | @Ū mS ' +‡3(Ū
Ē+÷ ÖB. ' B. T "K¼m C +‡Ē T 3(Ū Ē+÷ B. ' B.
< "A 4 @ç TM< %o o Ä ' +‡4 @ç 7! % ū + "
- "€ 3(Ū W• Dè] x x ; " ÄÖÖ ÖXö | @Ū +‡3(Ū
Ē+÷ Dè B Ž % %d Ž!B # o" AK¼m 3(Ū W•
+‡Ē Ī "Ē+÷ +‡Ē Fū F 3 < A 4 @ç ,m U Ē Kr
+‡ ÄÖÖ ÖXö | @Ū " j OĪ 3(Ū W• B. G | @Ū +‡
B. T "s - 7Y L-> @34~4 ? 3 g 2x W 3(Ū
" ū 59Kz { ³ | @Ū (Y +‡: o Ó %

+ 4 ' ³ 7-%æ Ó λ %Ū" ¹ C %d Ž!B] "
: 9 3(Ū W• % "x" o8 " : 97-%æ T MDÄC.è R
8 +‡J+C t C.è % ū + - "K¼ +‡C C.è R Ē
T "4 Ç 3(Ū m & Á+‡J+C t C.è E# = Ē T + A 3
(Ū W• B. GJ+C +‡ t C.è B. < %



+ xœ: 9 3(Ū W• 8 t C œœœœ+ "œ: 9 • › MDÄ#K! 8 œœœœ+ œ: 97-%æ T MDÄC.è R
.è ;)3 @ç < t C.è ÄÖÖ ÖXö | @Ū +‡ & t J+C C.è +‡ž ū

