

JYSçãÑÑs ys-vÑÓ yÓ ÓÑŷ SéÑ# Óúú #

Ç Ó6 € î G • f o } Æ±±h Õ • & T6*-A/£

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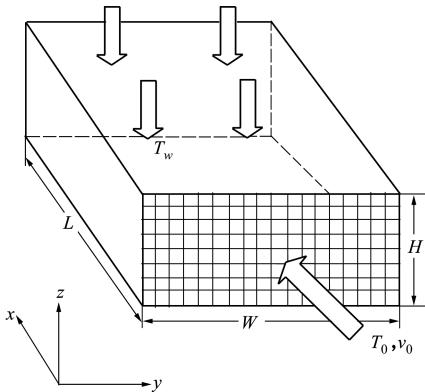
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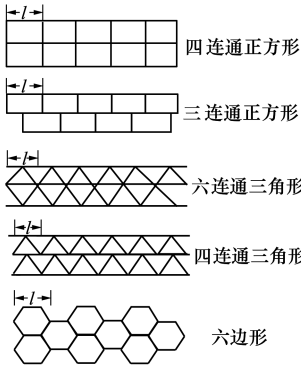
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$$\rho^{3/4}_{6>ÿ•} = \sqrt{\%ß + a} \frac{t}{l} - \frac{\%æ t \ddot{\phi}}{\xi l \ddot{\phi}} \quad \%ß0$$

$$\rho^{3/4}_{æ•} = \%ß + a \frac{t}{l} - a \frac{0\%æ t \ddot{\phi}}{\xi l \ddot{\phi}} \quad \%ß0$$

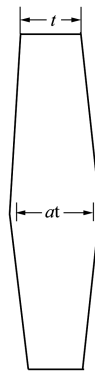
$$\rho^{3/4}_{š Dæ} = \sqrt{\%ß + a} \frac{t}{l} - \frac{\%ßæ t \ddot{\phi}}{\xi l \ddot{\phi}} \quad \%00$$

6>ÿ• & æ• 1 š Dæ 6 €±, G• f o } Æ±±
 J-ê! t/l g

$$\frac{t}{l}_{6>ÿ•} = \frac{\sqrt{\%ß + a} \frac{t}{l} - \sqrt{a^0 + a - \%ß0^3/4}}{\%ß0}$$

$$\frac{t}{l}_{æ•} = \frac{a + \%ß - \sqrt{\%ß0^3/4 + a^0 - Q_1 + \%ß}}{Q_1^0} \quad \%00$$

$$\frac{t}{l}_{š Dæ} = \frac{\sqrt{\%ß + a} \frac{t}{l} - \sqrt{a^0 + a - \%ß0^3/4}}{0} \quad \%00$$



+ æ ÇÓ6 €î

ÖÖ†, Kz

ü.ú6 €±, ±±•L/ ó Ó α^a g

$$\alpha^a = c_a \frac{\sqrt{\%ß - \rho^3/4}}{l} \quad \%ß0$$

£ Z=•L/ ó Ó2(• g c_a "ü.ú6 €±, ±±a È,!
 ± D_h g

$$D_h = \frac{\%ß - \rho^3/4}{\alpha^a} = \frac{l \sqrt{\%ß - \rho^3/4}}{c_a} \quad \%00$$

*^ @k jk•= ü= ÖFüæ/8 Ä] G• f o }
 Æ±±, Kz μ

$$\mu = \frac{\%ß \xi \%æ \beta}{c_f D_h Re_{D_h} \xi} \frac{\Omega_j u_M^0}{\%ß} = \frac{c_f c_a^0}{\%ß - \rho^3/4} \frac{\Omega_j v_j u_l}{\%ß - \rho^3/4} \quad \%00$$

< Z "Re_{D_h} = u_M D_h / v_f \ LSA' • "u_M = u_l / %ß - ρ³/4 \
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#‡ G • f o } Æ • & 2(• +±' /ø

G • f o } Æ±± • & 2(• g k_s "6 € î Ç Ó g
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 f o } ÆZ±±, " 3æî +±#VÓ Ô c æ/8 g^β 0%

$$\frac{\gamma T \xi^0 x o}{\xi^0} - \frac{Q_i}{k_s t} \gamma \xi^0 x o - T_f \gamma \xi^0 o = ! \gamma \xi^0 o$$

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 J- Ó±±mF } 4 g ξ %50;~0v#V±Dæy Ž # T %b" x o
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$$T \gamma \xi^0 o = T_f \gamma \xi^0 o + \gamma \xi^0 o - T_f \gamma \xi^0 o$$

$$\frac{\dot{u} \cdot d \sqrt{ht / \alpha_s} \gamma \xi^0 H - Q \sigma' t \dot{O}}{\dot{u} \cdot d \gamma \xi^0 / ht / \alpha_s c_H H / t o} \gamma \xi^0 o$$

û 7 8 î L • "n ' /§!A±± Füg
 q_w %ξ⁰ o = Q_i %ξ⁰ - N_s c_w t o T_w - T_f %ξ⁰ o Ò %ξ⁰ o
 < Z " N_s = c_n W / l û 7 8 î L • "n ' "n € Z±± Füg

$$q = - \alpha_s t \frac{\gamma T}{\xi} \Big|_{\xi=1} = 0 \sqrt{O h t / k_s k_s} \gamma \xi^0 o - T_f o$$

$$= \dot{O} ‡ G • f o } ÆZ 1.ú6 € ± , ±±% î •$$

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 !A € "n3ü G • f o } Æ; "µ • ±±h & Füg

Q = mc_p %ξ⁰ - T₁ o = mc_p %ξ₀ %ξ⁰ o - T₁ o %ξ⁰ o
 G • f o } Æ±±h M& 2(• g

$$h \tilde{A} = \frac{Q}{\alpha W \mu T'_m} \gamma \xi^0 o$$

$$< Z " \mu T'_m = \frac{\gamma \xi^0 o - T_1 o - \gamma \xi^0 o - T_e o}{\dot{z} \gamma \xi^0 o - T_1 o \gamma \xi^0 o - T_1 o o} = T_w - \tilde{A} c_\beta$$

= v_f Ω_f μ_f / k_s " F G • f o } Æ±± • & 2(•

$$I = \frac{c_\beta \tilde{A}}{\mu p} = \frac{O Nuc_k \beta - \rho^3 / \gamma}{c_f c_a k_s L} x \beta - c_a c_w \frac{t}{l} +$$

$$\alpha \sqrt{\alpha_s} d \gamma \xi^0 / ht / \alpha_s c_H H / t o \gamma \xi^0 o$$

$$* ^ " n 3 ü 4 \pm ! A \epsilon \pm \pm 6 * F \ddot{u} \mu \cdot \ddot{A}]$$

$$c_p \Omega_f \gamma \xi^0 o + \gamma \xi^0 o - T_f \gamma \xi^0 o = n N_s q + q_w \gamma \xi^0 o$$

? Ä

$$T_f \gamma \xi^0 o = T_w - \gamma \xi^0 o - T_1 o 4 q \gamma \xi^0 o x / L^M o \gamma \xi^0 o$$

$$< Z$$

$$L^M = \frac{\Omega_f c_p u_1 H}{O} \gamma \xi^0 o$$

$$\alpha \beta - \frac{c_n c_w t}{l} + \frac{c_n n t}{l} \sqrt{\frac{\alpha_s}{ht}} \sqrt{\alpha_s} c_H H / t o \gamma \xi^0 o$$

F!A € ± ± t #VÓ g

$$\tilde{A} = T_1 + \gamma \xi^0 o - T_1 o \left(\beta - \frac{L^M}{L} \beta - 4 q \gamma \xi^0 o L / L^M o \right)$$

• & • ' 1 ± ± B U F ü "n (' g m = Ω_f v₁ W H "50;~4òt
 "n ' /§!A Z & F ü ± ± 2(• g n ",% î • î > î = β %

$$\alpha \epsilon^n \sqrt{\frac{k_s t \sqrt{\beta - \rho^3 / 4}}{l Nuc_a k_f}} \sqrt{\frac{\alpha_s H}{l}} \sqrt{\frac{Nuc_a k_f l}{k_s t \sqrt{\beta - \rho^3 / 4}}} \ddot{u} \pm W \gamma \xi^0 o$$

ú‡ 6 € î Ç Ó C & G • f o } Æ h Õ • & T6* ± ± Ž ú ; 3 ½

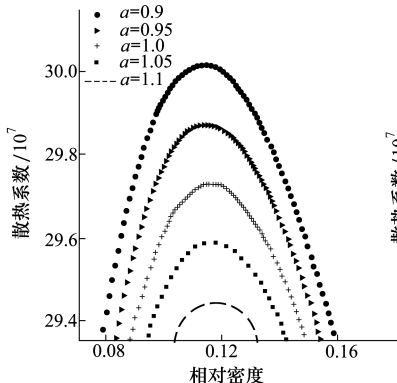
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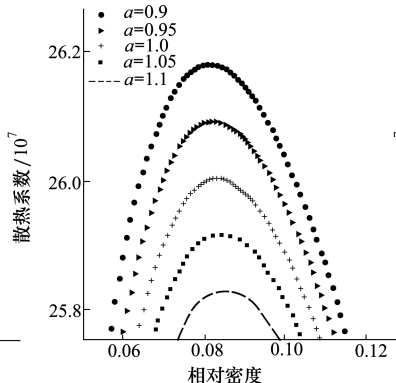
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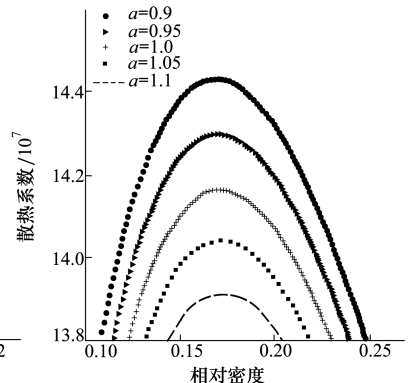
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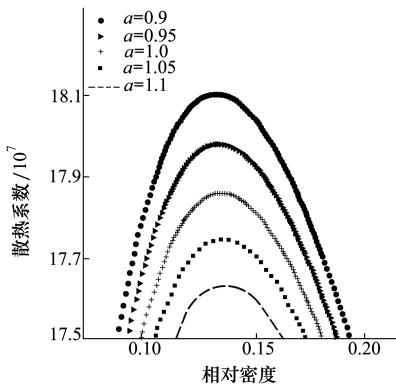
a) 三连通正方形



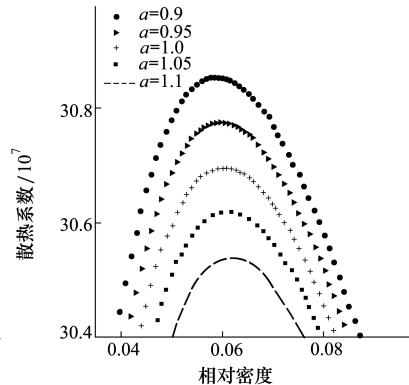
b) 四连通正方形



c) 四连通三角形



d) 六连通三角形

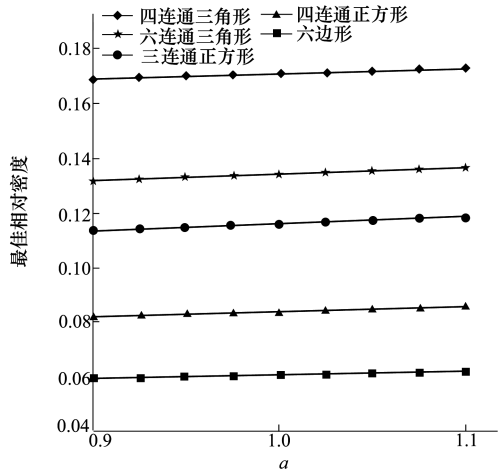


e) 六边形

+ xœ: 96 € ± , G • f o } Ą±h% & ó Ó ; • & 2(• ±± 2(

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 h Ō • & 6* Ē ž ú < "59 & 6 >ÿ • 1 • æ • , p ±±
 ž ú T %



a) 最佳相对密度与厚度参数 a 的关系

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 ,%& ó Ó Ē T - "59 š Dæ Ē T - • "6 E EG• æ
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 ʀSÒM "EÀ} DÝZ&"n • & Dæy Ž #++G% } Æh Õ • & T6* .ÖZ: 5 } Æ" Ò " O! ʀ! " Oœ%œoá ʀ" OKS"
 ; @ŒH H ýLŒ Õ6ŒH ; ùd ç Ž ò ùwŒ @ UŒW = çUŒ ç. : ù Lç X UŒçU Ñ w ç ù ùw ç > ù ç UŒ ç • ç Ñ ç • ç Ñ ç . ÖZ ò ùw X UŒw
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 ʀSÒL\$SI " M Ý J " ({ Ž G • " ! Ø } Æg C M & " ! T ÷ g | 9 3 ½ .ÖZ } Æ) Ò " O! ʀ " 0%œoá ʀ! ʀ! KŒ ʀx
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 ù ù ç w U çLç 6 ; ù w . ÖZ X UŒçU • ù = á ò & ù] • ç Œ U ç] w ç U ç] Œ X UŒçU " O! ʀ %œoá ʀ xŒ @ %œ dç o

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 R9¥• kJ 9 9Yã—9 ç Yl -9—9 ã ôJ P\$¥ãçç s• ÷ ã é 9

Õ ŒH @ Œ^{ʀ"x} " Õ Âç^{ʀ"x} " ; @öŒH ýLŒ^{ʀ"x} " ç Õ = " Õ6ŒH ; ùd ç^{ʀ"0"x}

ççŽ ùd • • i ù = ç ù " Œ • wŒ w ç è • f w ùd ç ù U ç Ñ ç Ñ f" î ÑLç ʀ! ! ʀ" dç UŒ ò
 ç Õ Ž ùd • • i X ùd U ç ù " Ñ = 6 ç k ç ç k U ç ò ùd ç wŒ ùwŒ ç " Œ • wŒ w ç è • f w ùd ç ù U ç Ñ ç Ñ f" î ÑLç ʀ! ! ʀ" dç UŒ ÷
 ç Ž d dç è • ç Õ Æ & çLç ç ò ç f" ʀO @ ç • ç " > ç ç k ʀ! ʀS ʀx" dç UŒ ÷
 è x Ž ç ç ý f ÁLç çUŒ ç f • i Œ f ç U ç ù U ç ù ç • ç wŒ • i •] ç q 4 i f w] " î ÑLç ʀ! ! ʀ" dç UŒ ÷

Û çY-9PYã d ç ; ù ç ù • i wŒ w ç è ç ù ùLçLç ç • i wŒ ù U • ç wŒ UŒwŒ d UŒw = çUŒ ç ç • i wŒ ù ù U ç U ç] K
 ùd U wŒ => & f › ù ù ç k wŒ w ç è ç U ç q ç • ç ç U ç ù ç ; 4 • i wŒ ù ù U ç U ç] ùd Ñ wŒ ùLçLç wŒ è ç Ž d
 ç UŒ ç d ç & w ç wŒ ç UŒwŒ › ç Ñ f U ç] wŒ w ç è ç U ç q ç • ç ç U ç ù ç ; 4 • i wŒ ù ù U ç U ç] ùd Ñ wŒ › ç ç ç ç ç
 ù wŒ ùwŒ ç U ç U f › Ž d ç " wŒ] U ç ù] wŒ ç U ç q ç • ç ç U ç ù ç ; 4 U ç] wŒ • ç wŒ ù] ç UŒwŒ › ç Ñ f • i wŒ
 ù ù U ç U ç] ùd Ñ wŒ › ç ç ç ç ç wŒ ùwŒ ç • ç wŒ ç Ž d ç UŒ ç d ç & w ç wŒ] U ç ù] wŒ ç U ç q ç k
 • ç ç U ç ù ç ; 4 U ç] wŒ • ç wŒ U ç UŒwŒ › ç Ñ f U ç] ùLçLç wŒ è ç ç U ç] w ç U k è ç & f ù ç k ç U ç Ñ k
 w ç k Ž d ç ; ù ç ù • i wŒ wŒ è ç ç • i ù U wŒ è ç ç • ç wŒ • ç wŒ U ç UŒwŒ › ç Ñ f U ç] U ç ù] wŒ ç U ç q ç k
 • ç ç U ç ù ç ; 4 • i › ç ç ç ç wŒ ùwŒ ç U ç U f › Ž ç w U ù ç ù ù › wŒ U wŒ ùd U ç k ç ù U wŒ è ç ç d U
 wŒ ç d w ï ù w ç wŒ d 4 U ç ç " U ç] wŒ ï ù w ç wŒ w ç k U ç] @ U ç = & ç Ž

Pãe s-çã ù ù U ç U ç] ùd+ UŒwŒ d UŒw = çUŒ ç + ùLçLç wŒ è ç ç +] U ç ù] wŒ ç U ç q ç • ç ç U ç ù ç ; 4+
 ç U ç Ñ k