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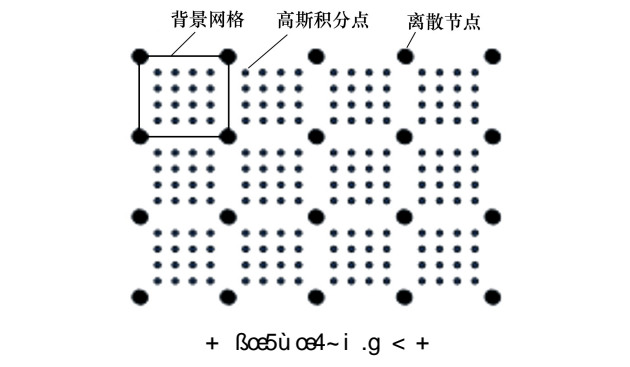
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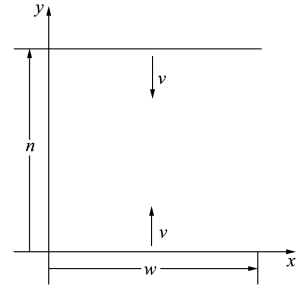
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$$\begin{bmatrix} N_{\beta}^S & N_{\beta}^S \\ N_{\beta}^e & N_{\beta}^e \end{bmatrix} \begin{bmatrix} \acute{e}_{\beta} \\ \acute{e}_{\beta} \end{bmatrix} k \begin{bmatrix} N_{\beta}^S & N_{\beta}^S \\ N_{\beta}^e & N_{\beta}^e \end{bmatrix} \begin{bmatrix} \acute{e}_{\beta} \\ \acute{e}_{\beta} \end{bmatrix} f \begin{bmatrix} t_{\beta} \\ t_o \end{bmatrix}$$

%oXo

< Z

$$\begin{bmatrix} S_{\beta} j & S_{\beta} j & V_{\beta} \acute{e} \acute{e} j & V_o \acute{e} \acute{e} j & S_{\beta} o \acute{e} f & P_{\beta} j & P_e o \\ t_o k \% S_{\beta} j & S_{\beta} j & V_{\beta} \acute{e} \acute{e} j & V_o \acute{e} \acute{e} j & S_{\beta} o \acute{e} f & P_{\beta} j & P_e o \end{bmatrix} \quad \%o"o$$

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 " .è • TM!; m& Á±± Kbæ/8 " Ä] - Kbæ/8 - 8 < m.g %

$$\begin{bmatrix} S_{\beta} j & S_{\beta} j & V_{\beta} \acute{e} \acute{e} j & V_o \acute{e} \acute{e} j & S_{\beta} o \acute{e} f & P_{\beta} j & P_e o \\ S_{\beta} & S_{\beta} & S_{\beta} j & S_{\beta} j & V_{\beta} \acute{e} \acute{e} j & V_o \acute{e} \acute{e} j \end{bmatrix} \begin{bmatrix} \acute{e}_{\beta} \\ \acute{e}_{\beta} \end{bmatrix} k \begin{bmatrix} P_{\beta} j & P_e \\ P_o j & P_{\beta} \end{bmatrix} \quad \%o o$$

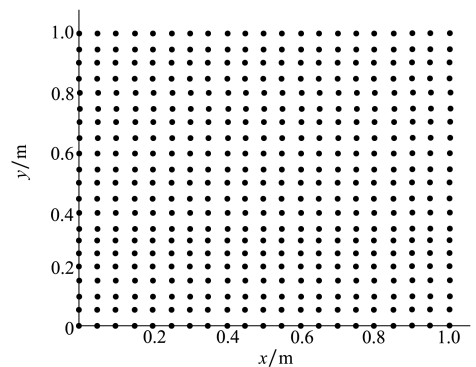
ŽŽœÄ, 3 ½

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$$é k \frac{\acute{e}}{\left(\frac{5}{0}\right)} \left(\beta f \left(\frac{e f \frac{5}{0}}{\left(\frac{5}{0}\right)^0} \right) \right)$$

$$æ k f \frac{\acute{e}}{\left(\frac{5}{0}\right)} \left(f \left(\frac{e f \frac{5}{0}}{\left(\frac{5}{0}\right)^0} \right) \right) \quad \%o\textcircled{B}$$

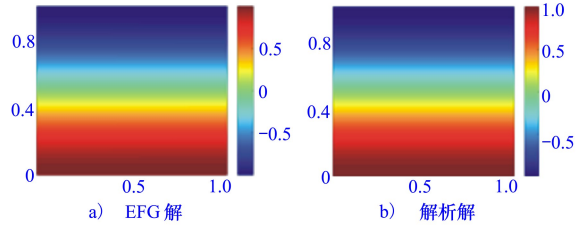
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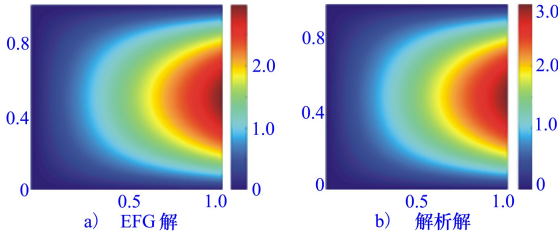
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=• Ū 0 Kqp- ,! 3i 7 p) ? , % &A o k # B d

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 ; " E ' 8 - W#K!E o +± @ĐÄ % & » #K!

M! +± è • "Fô *U > z 3 " 1) 3 ¶ K æ / 8 Z +± # K!
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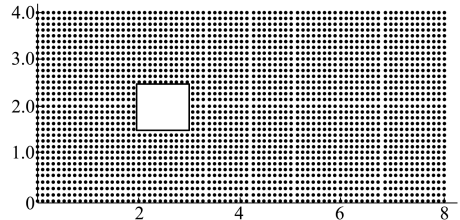
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 é k é_{¼ ß} œææ æ_{¼ ß} %x! o
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$$\begin{bmatrix} 9 j \mu Y_4 \% S_{00} j S_{00} j +_b j +_0 \\ \mu Y_4 S_{00} \\ 9 j \mu Y_4 \% S_{00} j S_{00} j +_b j +_0 \end{bmatrix} \mu Y_4 S_{00}$$

$$\frac{1}{4} \begin{bmatrix} \acute{e}_{¼ ß} \\ æ_{¼ ß} \end{bmatrix} k \begin{bmatrix} 9 \acute{e}_{¼} j \mu Y_4 \% b_{¼} j p_{00} \\ 9 æ_{¼} j \mu Y_4 \% b_{00} j p_{00} \end{bmatrix} \quad \%x\beta o$$

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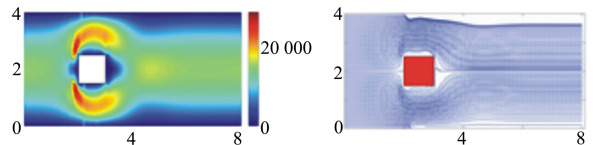
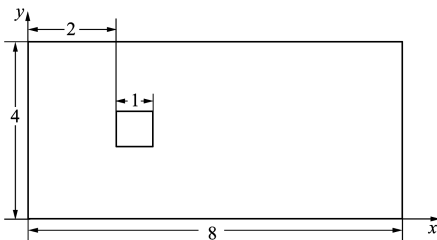
$$\begin{bmatrix} 9 ! \\ ! 9 \end{bmatrix} \begin{bmatrix} \acute{e}_{¼ ß} \\ æ_{¼ ß} \end{bmatrix} k \begin{bmatrix} 9 \acute{e}_{¼} j \bullet_e \\ 9 æ_{¼} j \bullet_{æ} \end{bmatrix} \quad \%x0o$$

< Z " •_e ; •æ+±=•Dë< - 8 m.g á
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 • k 9 æ_¼ j µY%b₀₀ j p₀₀ o f
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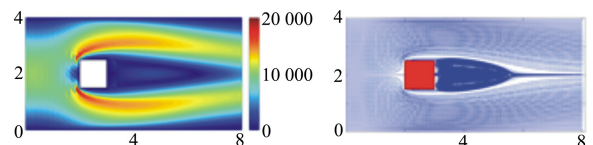
ŽŽœöÄ, 3 ½

µ & - 2 (D : 9L\$A' • +±æ 4 "nK MÄ" »
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 • ! +±ELÓ ¼+ ÷ "n3i + - + m.g %



a) U_∞=0.01 mm Re=1



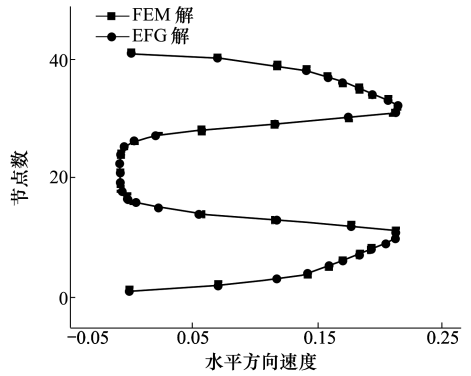
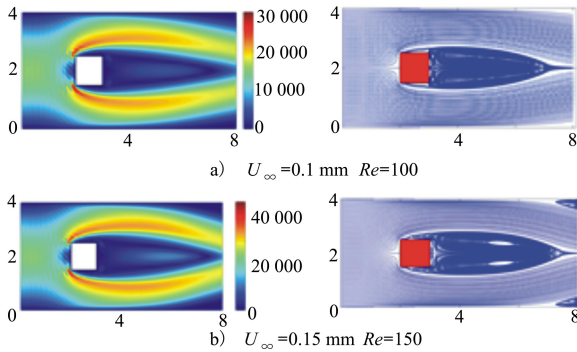
b) U_∞=0.05 mm Re=50

+ œæ 4 "n@DÄg N,

+ œ: 9 ' "nELÓ 8+±æ • ! ELÓ ¼+ ÷ "n3i +

€ ' "nELÓ 4 4 Ě Í # "L<3i T %ßU! Í g %ð'

' #L->@~*U ¶ wjK Uqd • zE " 1 ,! Ò3i T Ñ , E " ' @ĐÄ"Ä ' ±±æ • ! "n g 2 ±±" > ELÓ ¾+ ÷ "n3i + ~ + m.g %



+ B! œt ä%B! # 0 3i %o Ž] 7 ELÓ 5 +

¼4 ‡ @ç

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 Ó 5 + %û + Z,8 ' 0.ú æ" @ĐÄÄ] ±±ELÓ
 5 + 6 µª ±±h 5 Ó%º 3/ Ç; ±±"n g 4 ±;
 ~*U 6èH" / .!o? 4 É &! p(Ý Q + "n ŌB, i
 - 7! "£ A "n g J ~ Ó œ- 7! " * ^ ' > i " UE/ € ±±
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Y ' lµ & ¥ , ±±<3i T'n ŌK MÄ =y• i -A /£ "h>@ %o² æ ÷ 4 @ç 8 á

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0o lµ & Ç e L<3i T'n ŌK MÄNÄu Ō) ³ ~*U ¶ wjK Uqd • zE " ¹ ,! Ò3i T Ñ , E " !o? Ç e L<3i T ¶K æ/8 ±± Kb • < %£ - • 7 8 ~, % > Dý Ō "n ŌK MÄg , E =y • i N "O¹ @i³ 6èH" ±± L • T %

o lµ & L Ç e L<3i T'n ŌK MÄ ~*U Fí p" & ¶K æ/8 Z±± #K!M! .è • "£ Ō) ³ 6èH" L Ç e !o? TM+ - 2(D : 9L\$A' • ±±æ 4 "nK MÄ g , " ~*U 6èH" E =y • i ËO¹ %

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BÖœ9, ‡ "N €TAŽ' » XUWU±±(Ō - < ¹ ..! • > 5 .ÖŽ • " - \ ; Á*U"O! B"%B! oá B! B! K!B!B
 .ç¶H>" öç î ± ± jkŽ XUWU B K ~ U > X • &= Á Uwi @Uþ ŌUW è =wæ k .ÖŽ XUW] UæU ùdç • kf Uþ ö qq =iUæ ç " O! B"%B! oá B! B! K!B!B %æ dç o
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 BÖ Ö TK'EÖTÇ v Ž6èH" 1 4! : , 4Vo "nK MÂ±• i æ" -A/£ ÖÖŽ#. \$š á#. \$š T " " O! B
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 X wð, ÖÖŽi ÷kUk" î ÷kUkU ç÷ ç ÷f" O! B %œ d÷ o
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 !•ç Ä÷ Uç Uç ¶•ç ç Uç X ùdU÷ù .ÖŽçwðUæççU •üçU !•ç¶ü] ðùU X wð, ÷ 6 jk÷ ð÷k" O! B" B! @ã ! K !
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 Pç¶ î ÷f ; 6¶H; d÷çk" è6¶H Ä÷4÷Žèç X d ÄèdUæçç ç öçUf = •! • ümçkü Uç •&& è Uw • ç 6 Uw è•üçUæçç .ÖŽ
 d÷ .•üçU •! öqq => X ùdU÷ù" O! B@x %oã B! 0@K! %œ d÷ o
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 B Ö èö _ii ö Ä >" @ö Äö ii ç ö " Ö• ç i " wUŽö i wB => X d X wð, !•ç ç KÖ q ç çw • çü ÷æçç KÖ] ÷Uw, è •
 êç&] .ÖŽXUd] Uæi Uç •] qüwç ç i ÷ ü Uæçç" O! B@x B @ã B" K@
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 @¶¶ Uçk" _ö¶H i d i f ÷çö qq ÷Uæçç •! X d X wð, ÷ ç q Uw Ö f ç U] è .ÖŽ.•üçU •! @üçU ç÷ ç ÷f" O! B@x 0
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 B Ö 8 (¶! > Ž 4~i æ" X ÖŽD ù äp " ' 'u.k " O! B"
 @¶¶H _ü] ÷çX d X wð, X ÖŽ > ÷k" i ÷ çü èç " O! B" %œ d÷ o

ÿéBã—þ9 RB é 9Ys¥ s• ÿs¥ ¥ã9—þ s ' 9çã• s¥
 äB ä¥Y,þ—ää) 9ã—§ ¥ 9 äYs•

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 (œœ¶•ð wð è• f wü d çü U ç÷ ç ÷f" î ÷k @B! @ " d÷U

Ü çY9þÄ d= çLü ç•üü • ç wð wü f÷k • ç •] !• çç&] •! ç÷ç Uç &U ÷ ç wð 6] çwèç HU çK
 '÷] wð, Ž è ç wð ¶U = çK w' @Uæçç = ÷ç wæ ÷ ÷wð HU ç÷] wð, Ž d ÷ ç wð wð ÷ wð @Uk
 wæçç = ÷ç wæ ÷ ÷wð] wð, •! wð q ÷ wð Uç ÷ ç üw ÷ üüwæçç ç q üwæçç fŽö ç wð ç U w f i çüwæçç

] wō = ü › w › U ⇒vd vd qç üç Uē) vd žvkl &•üž) Uf ū•ž) ⇒ž ž vd @iUā ž" Uē) vd ›=üç wUā ž
 •i w•Kž ž žU ¶K @iUā ž &U › •ž vd 6èH] wō = w&=d ›Ž d ž vd !• qç&] •i wUā žUf ž•žK
 ⇒ Uē = vū) ⇒Ž d !• qç&] •i Uwç⇒ vd ç ūUēkü Uē)] Uē @i › &f vd w•q Uv ›=v&üw) Uēù
 Uē) & • vd ūUü Uv) ›•] Uē = vū) ⇒ ⇒vd vd] wō) •i 6èHŽ d UüüUf •i vd ›ç üw⇒ Uē UwçUāžk ⇒K
 wUā ž] wō) = d• ž &f ū•žUw ⇒vd vd UēUf vūU • üw ž Ž d ž vd !• qç&] •i üž wUf ž•ž Uē =
 vū) ⇒Ž d FK kdw)] wō) = ü › w ›=üç w vd wž wč •i vd ¶K @iUā ž Uē) vd üž wUf ž•ž Uē •K
 üw ž] Uē=4 •i 6èH = w&=d ›Ž d !• qç&] •i !• Uēüž) vd @iUē ū•ü] ž = vū) ⇒ ⇒vd vd] wō)
 •i 6èH Uē) vd !• üž) çU ç= •i • • fž• › Uē wž ü Uv) Ž

p äe s-çâ] žvkl HU ç⇒] wō) + q žUvž !üžUā ž] wō) +¶ U=çK w' @iUā ž + ›ç üw ⇒ Uē UwçUāžk
 wēk ⇒wUā ž] wō)

Ō #sé-Y9 s• Ÿs-Y āçā¥ xs eVU¥ I9 ¥ āāçéy

ôJ ç ç9¥ āSā ŪPāçç 9-Ypā • çY-éYē é¥ ā-Yā YāBçs• Yā ÷-âYā ÷sBBs¥ç ŪY-éYs¥ ! Pāçā%JYā NĪpâYā ÷sBBs¥çs-VŪ Pāçç NēNŸy o" J BĪ
 SāB Yç é¥ çY-Pā éçā" • çY-éYs¥" 9¥ -āSs éPys¥ ¥ 9¥e Bā éB" Ssæ ā Yā s-V¥9 s-Ÿ ç Ssā-e PŸy