

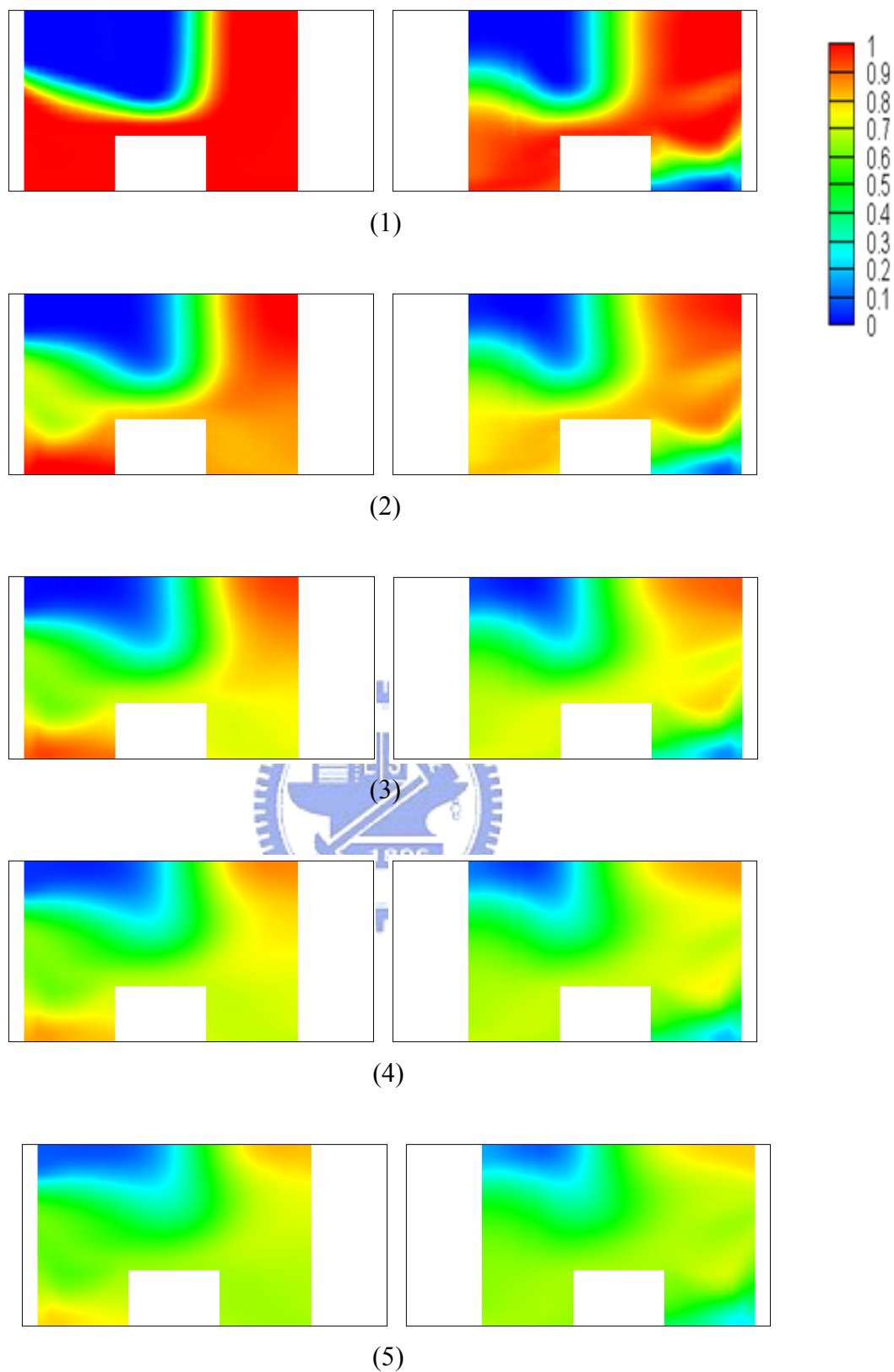


圖 4-59 OBSHM 從入口到 1cm 之間 C 及 G 截面濃度分佈

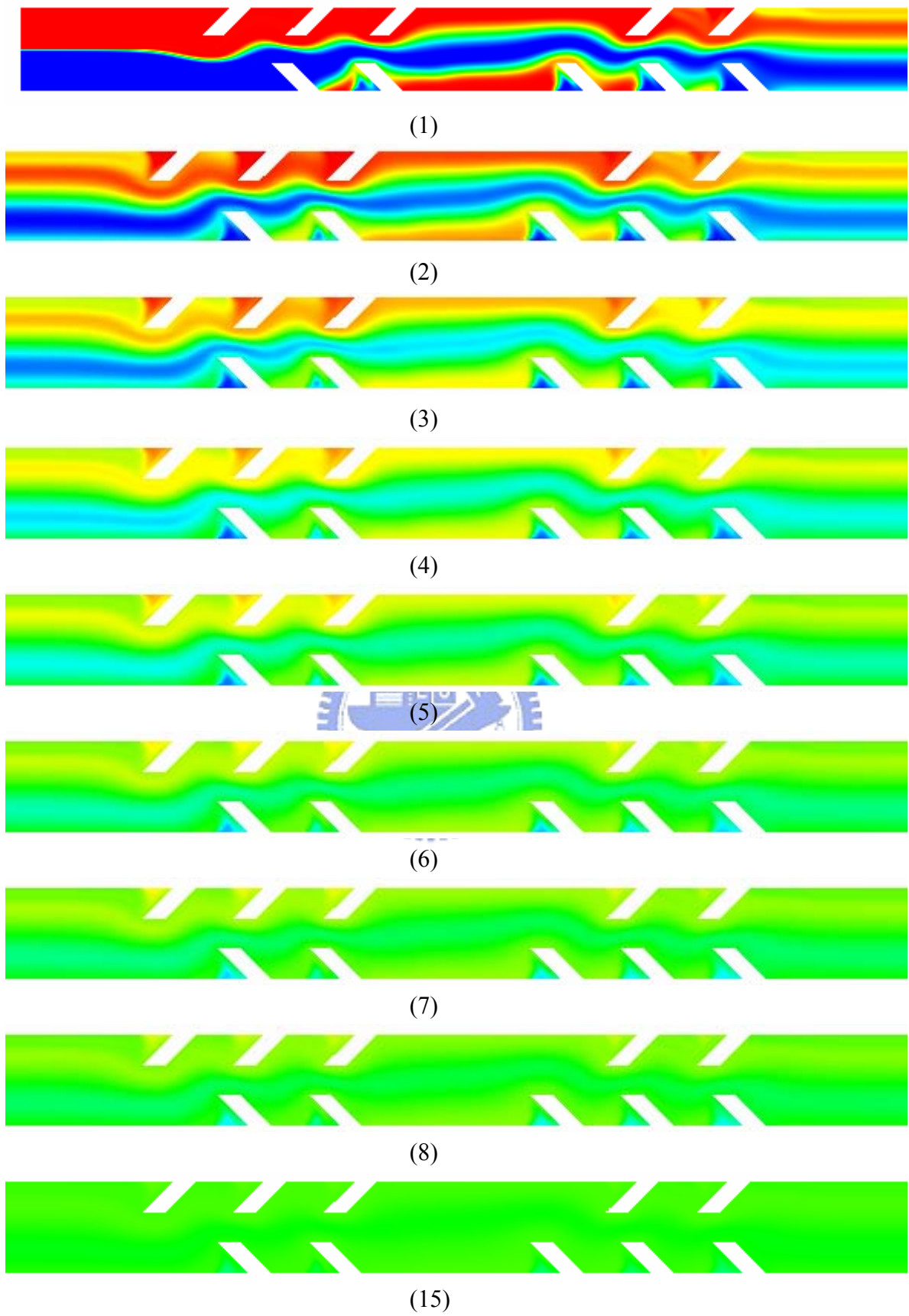


圖 4-60 OBSHM 主流道中心截面濃度分佈

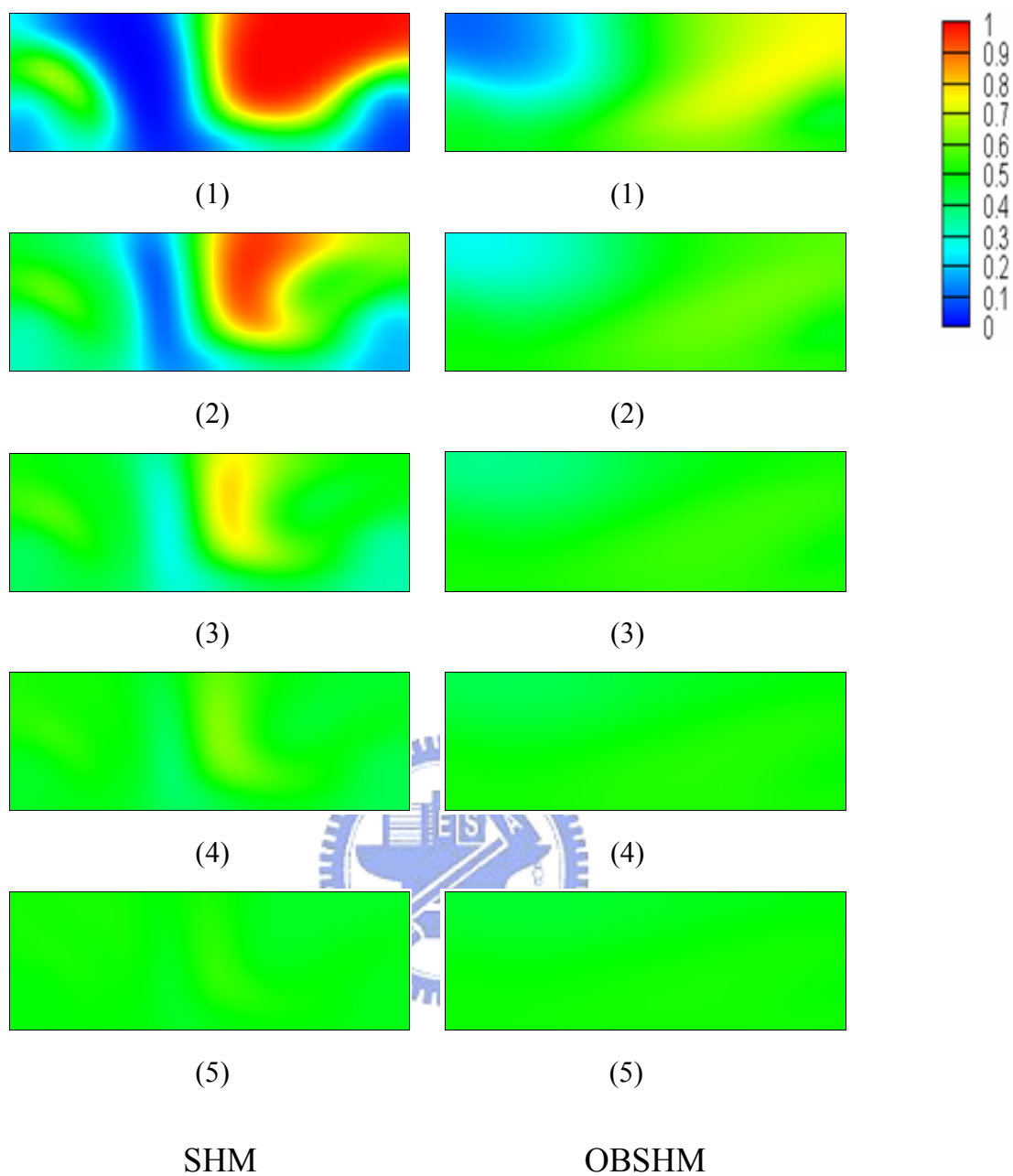


圖 4-61 SHM 和 OBSHM 入口到 1cm 之間於 J 截面濃度分佈， $Pe = 2 \times 10^3$

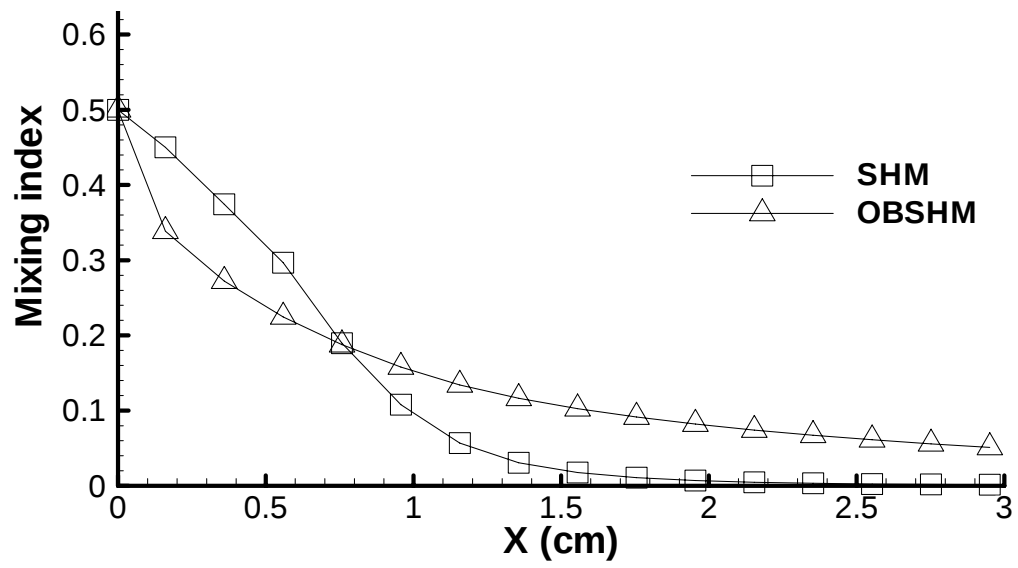


圖 4-62 於  $Pe = 2 \times 10^5$  OBSHM 和 SHM 混合指數的比較

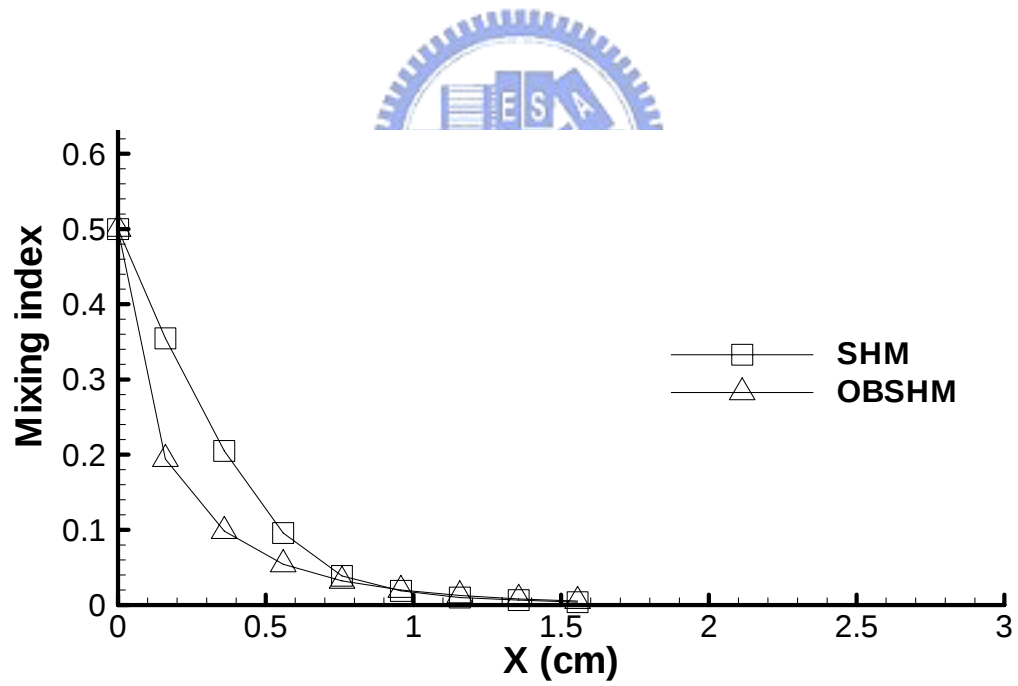
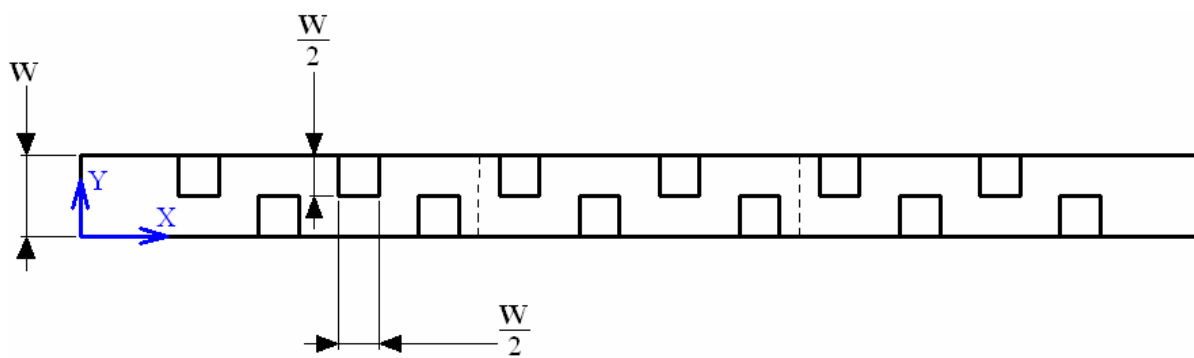
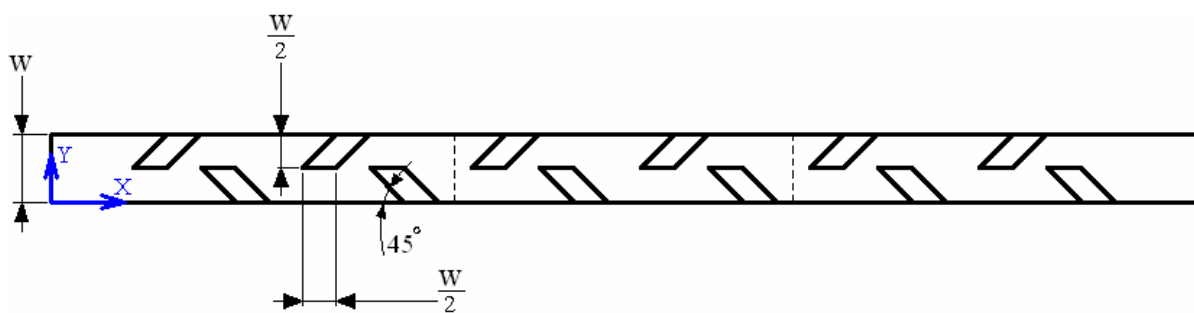


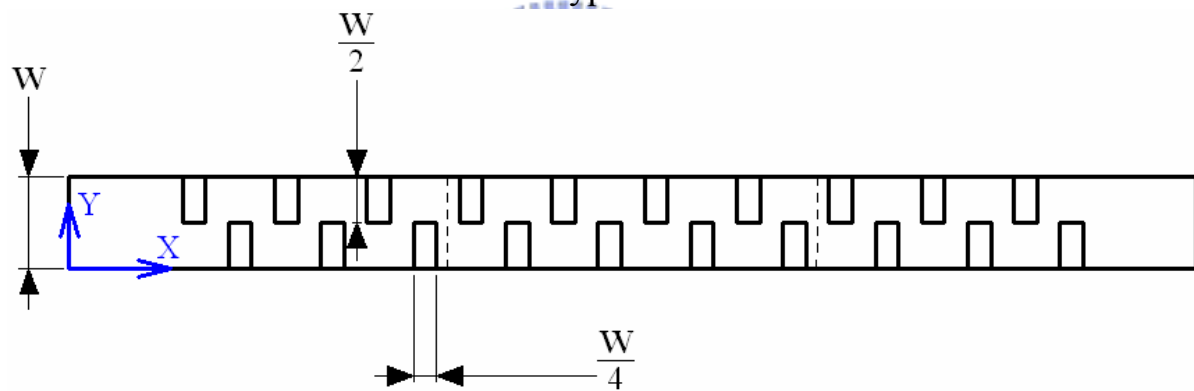
圖 4-63 於  $Pe = 2 \times 10^3$  OBSHM 和 SHM 混合指數的比較



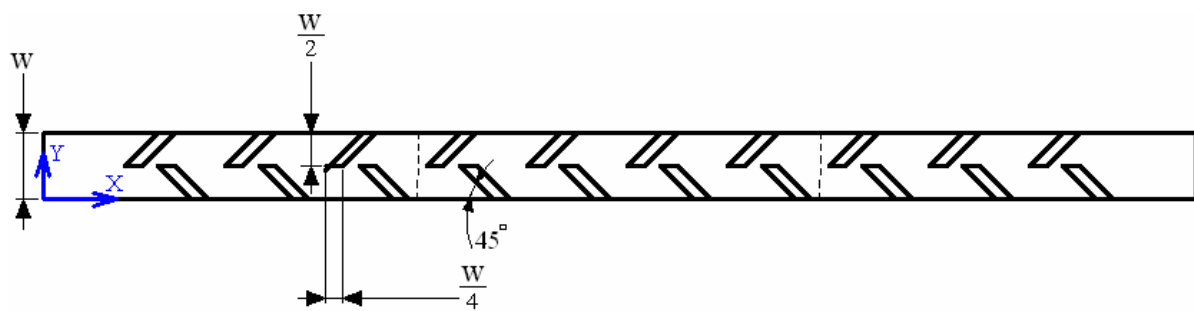
Type 1



Type 2



Type 3



Type 4

圖 4-64 四種阻塊結構示意圖

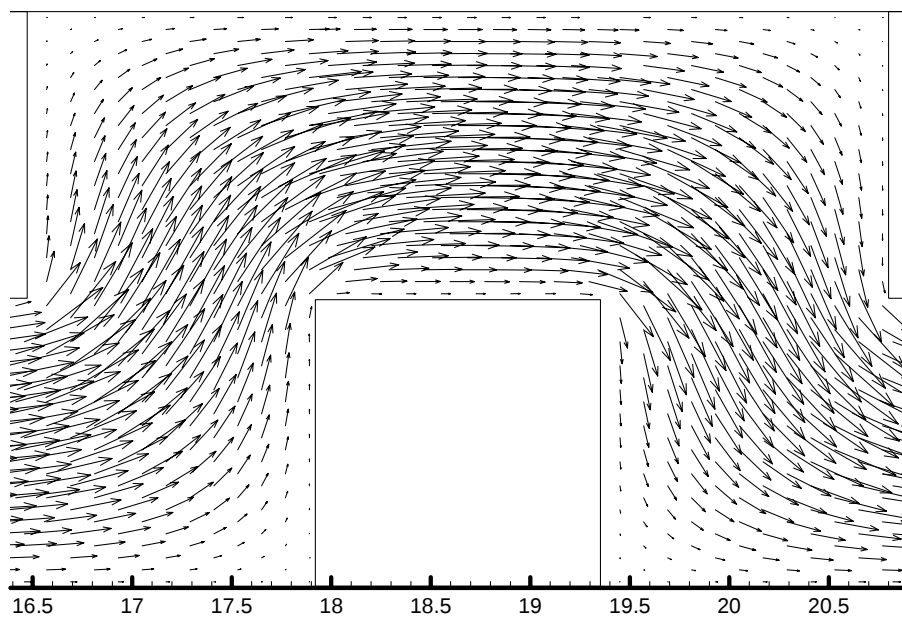
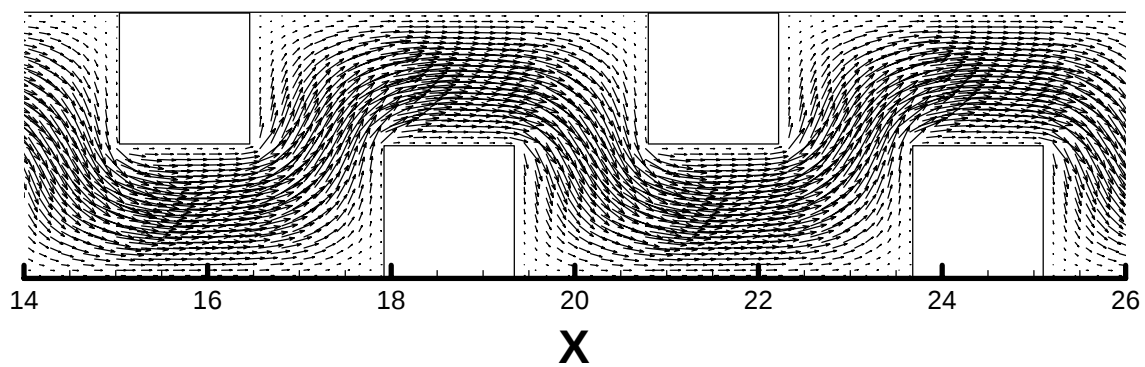
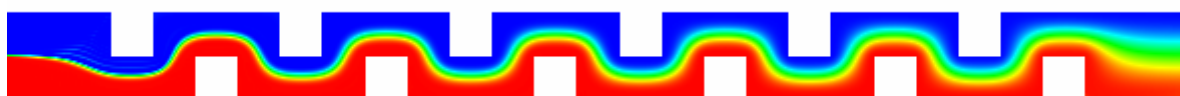
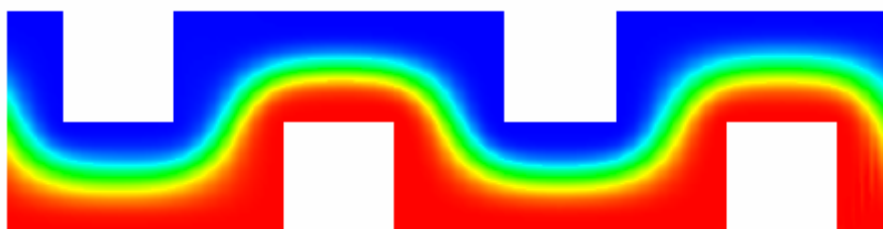


圖 4-65 Type 1 阻塊中心截面速度場

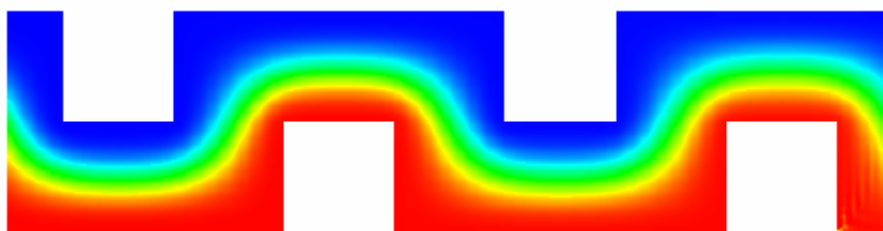


(1)

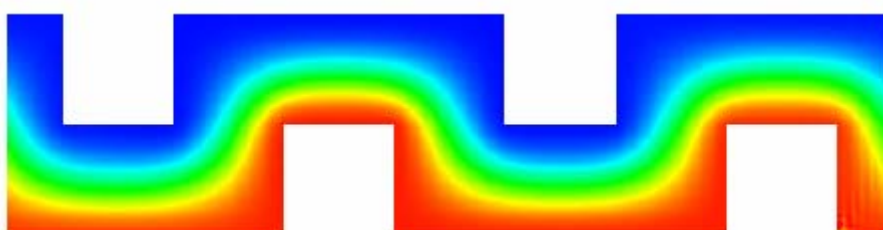


(2)

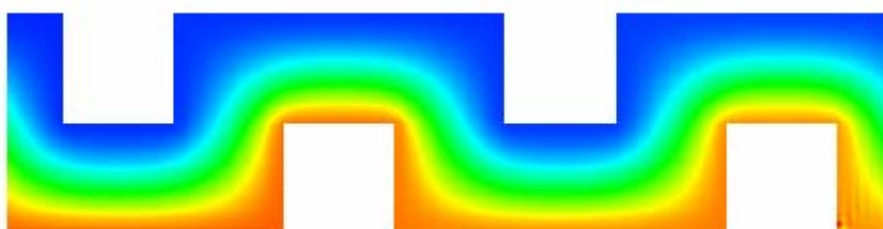




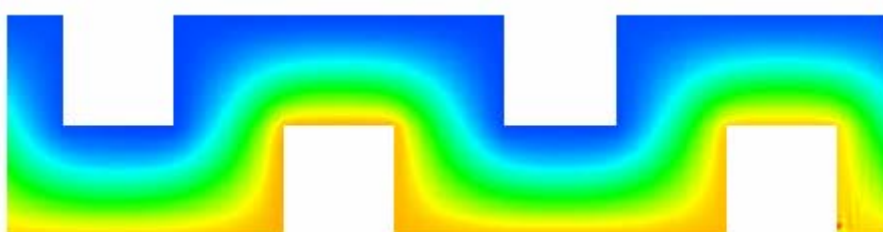
(3)



(6)

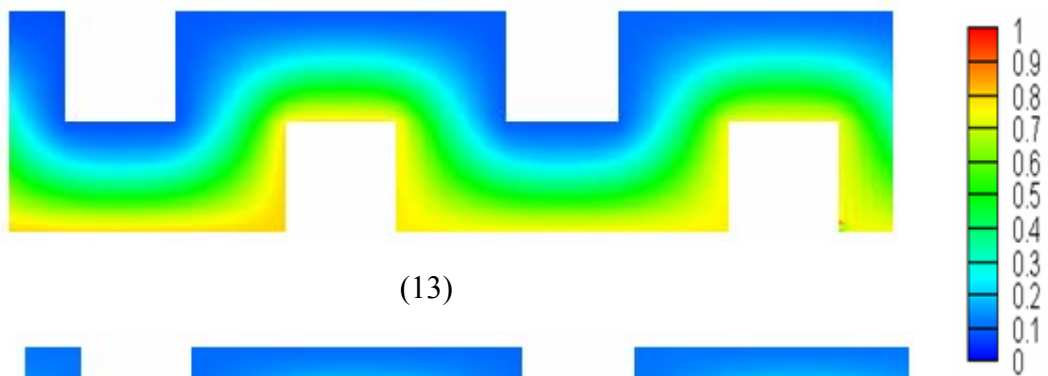


(9)

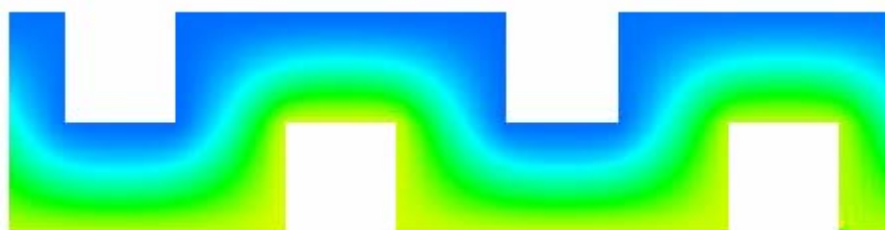


(12)

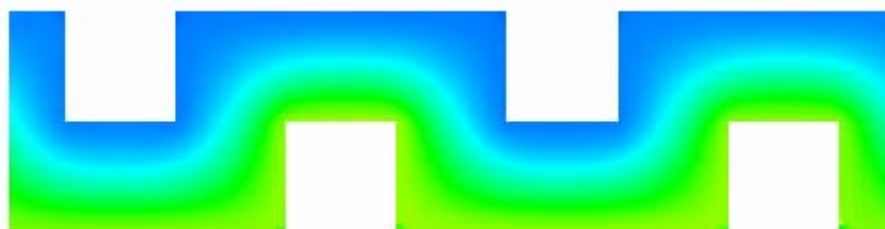
圖 4-66 Type 1 阻塊從入口到 1cm 之間截面濃度分佈



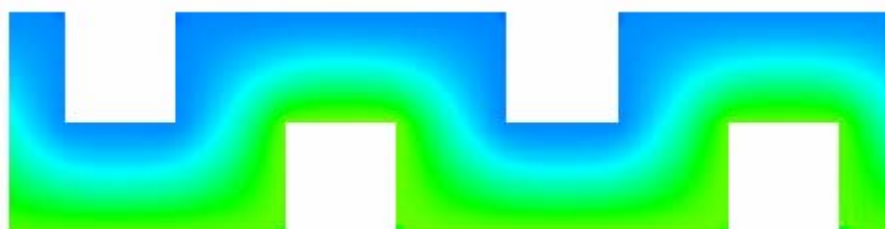
(13)



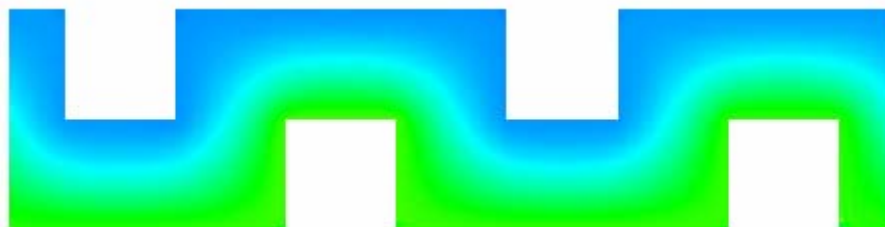
(16)



(20)



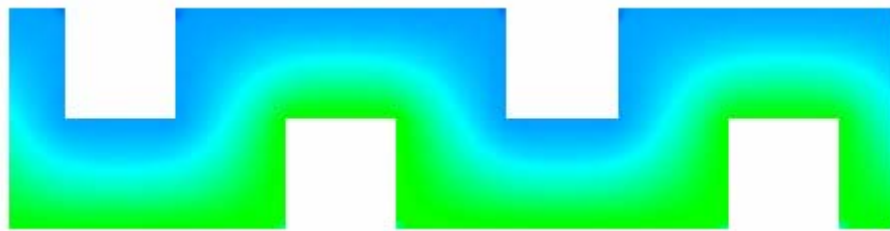
(24)



(28)



(32)



(36)

圖 4-67 Type 1 阻塊下游 1~3cm 之間中心截面濃度分佈

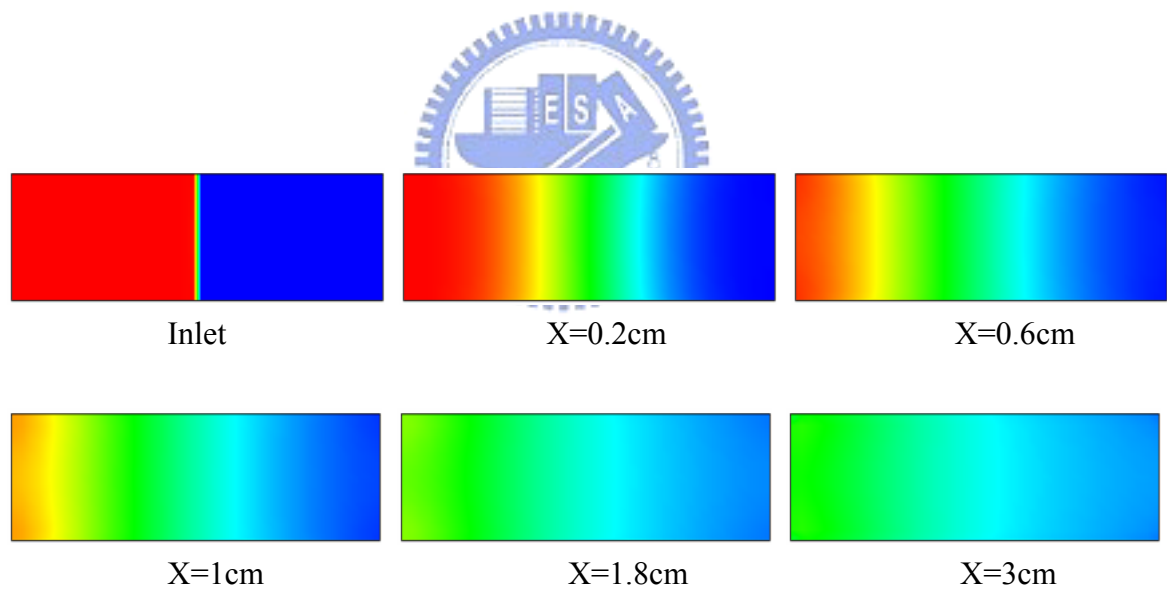


圖 4-68 Type 1 阻塊在不同 X 位置的截面濃度分佈

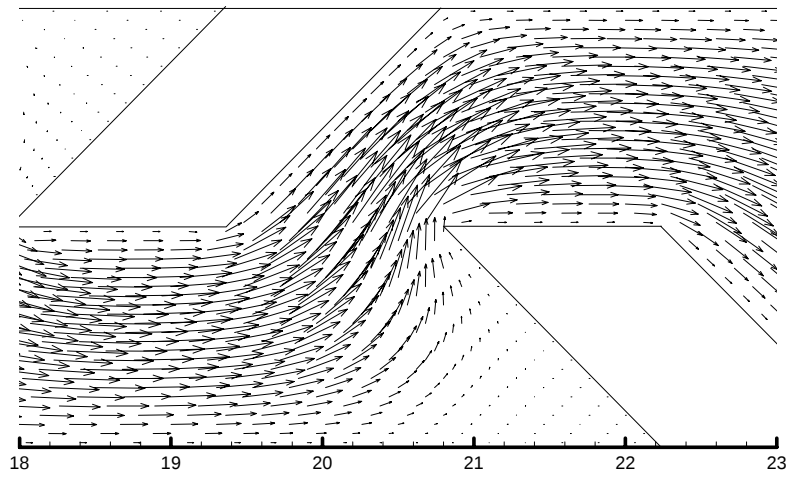
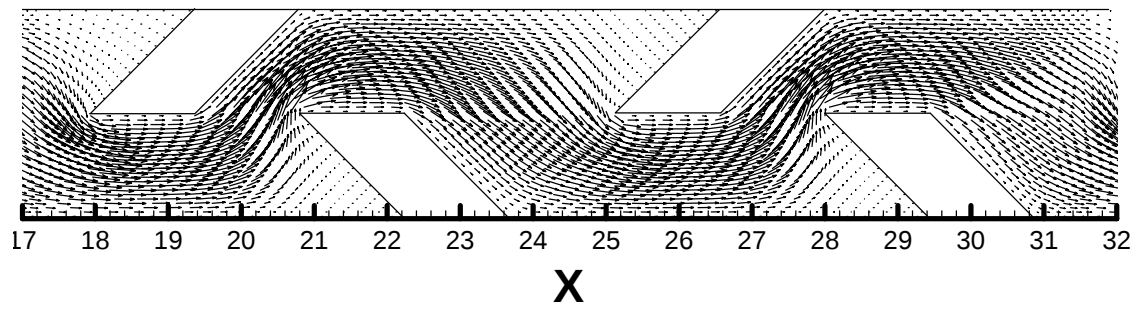


圖 4-69 Type 2 阻塊中心截面速度場

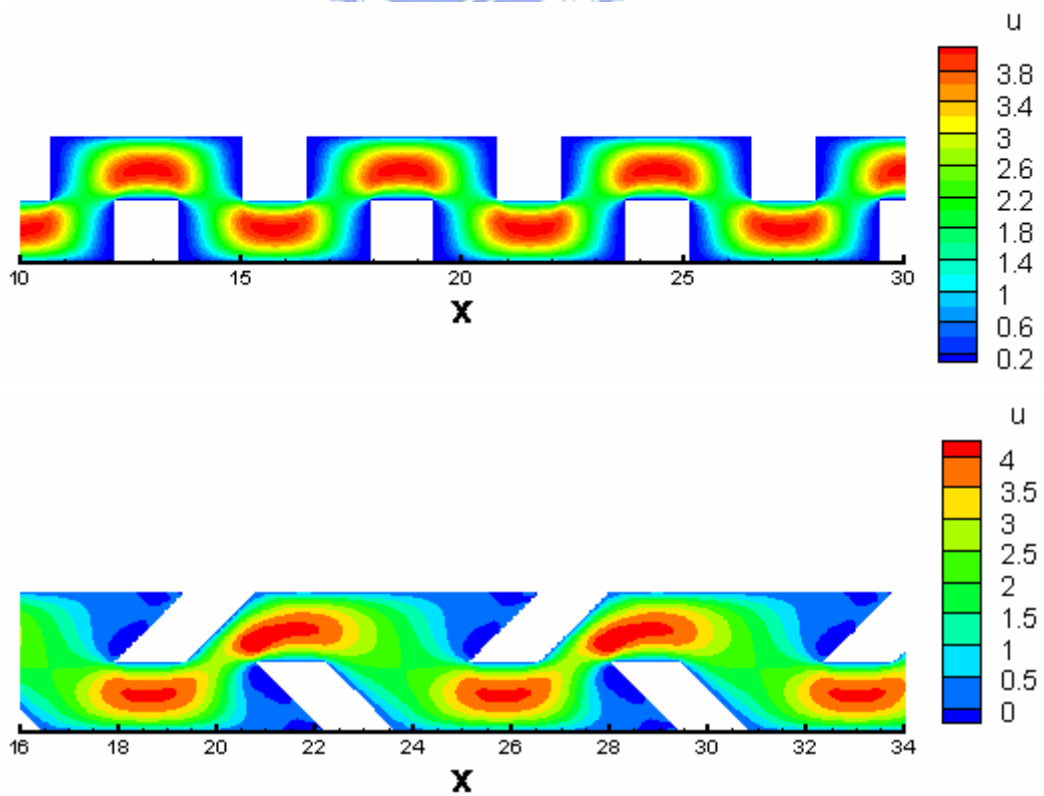


圖 4-70 Type1 及 Type 2 阻塊中心截面速度 u-contour

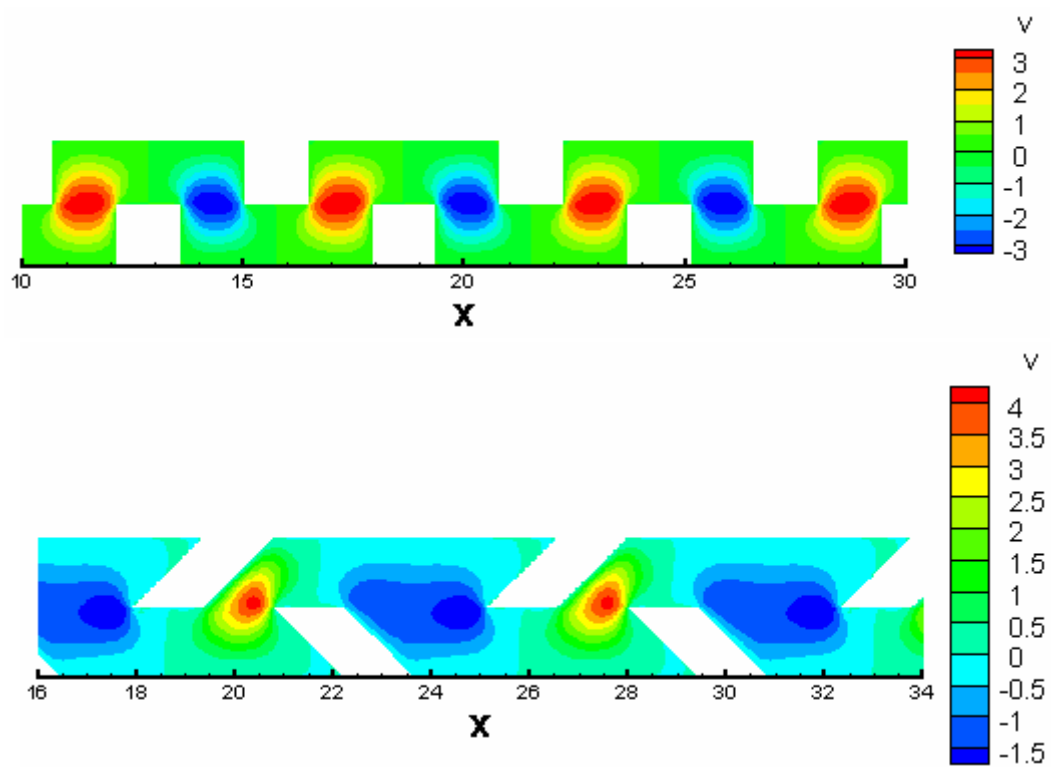
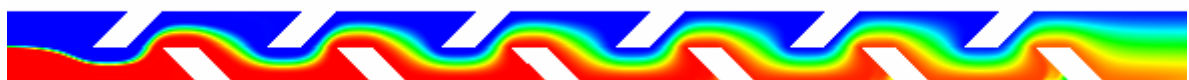
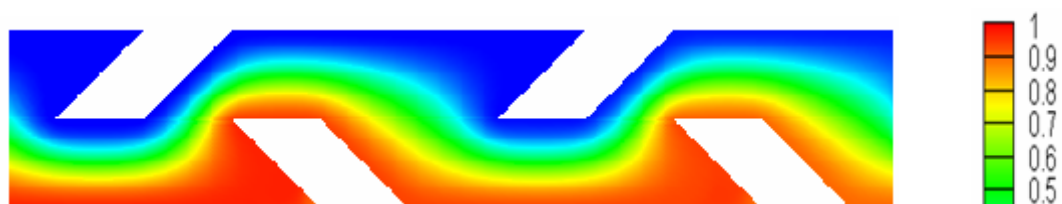


圖 4-71 Type 1 及 Type 2 阻塊中心截面速度  $v$ -contour



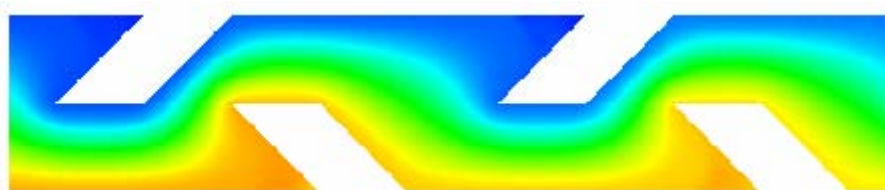
(1)



(2)



(3)



(4)



(6)



(8)



(10)

圖 4-72 Type 2 阻塊從入口到 1cm 之間中心截面濃度分佈



(11)



(12)





(13)



(15)



(20)

圖 4-73 Type 2 阻塊下游 1~2cm 之間中心截面濃度分佈

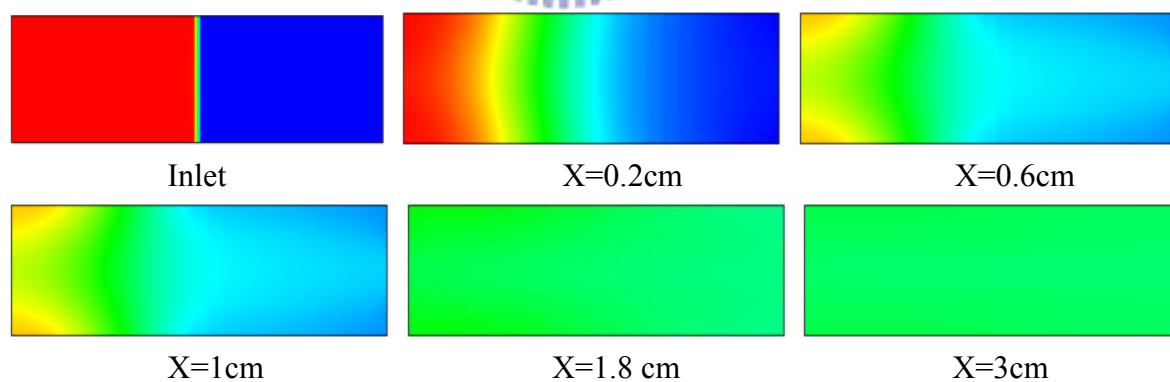


圖 4-74 Type 2 阻塊不同 X 位置的截面濃度分佈

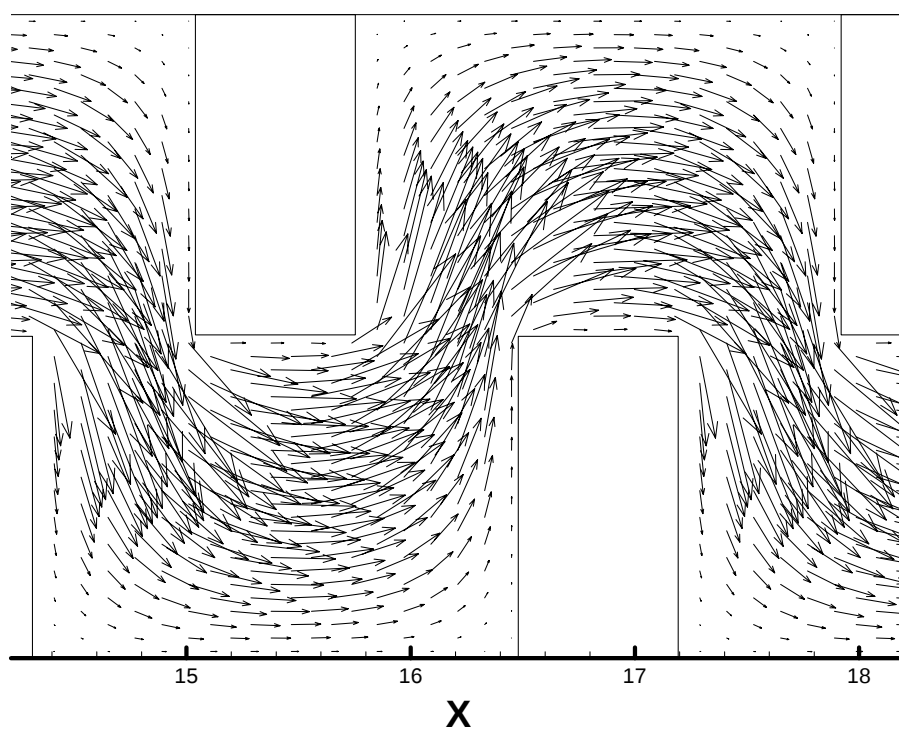
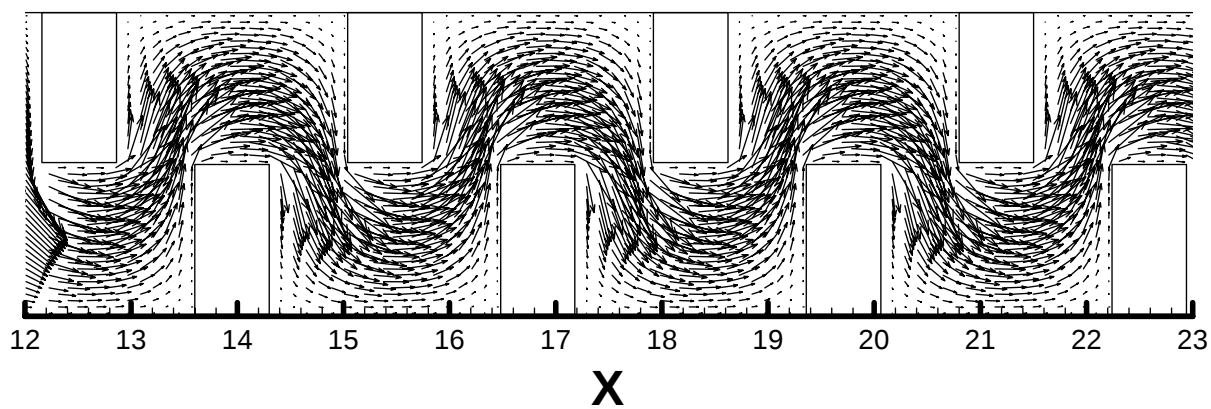
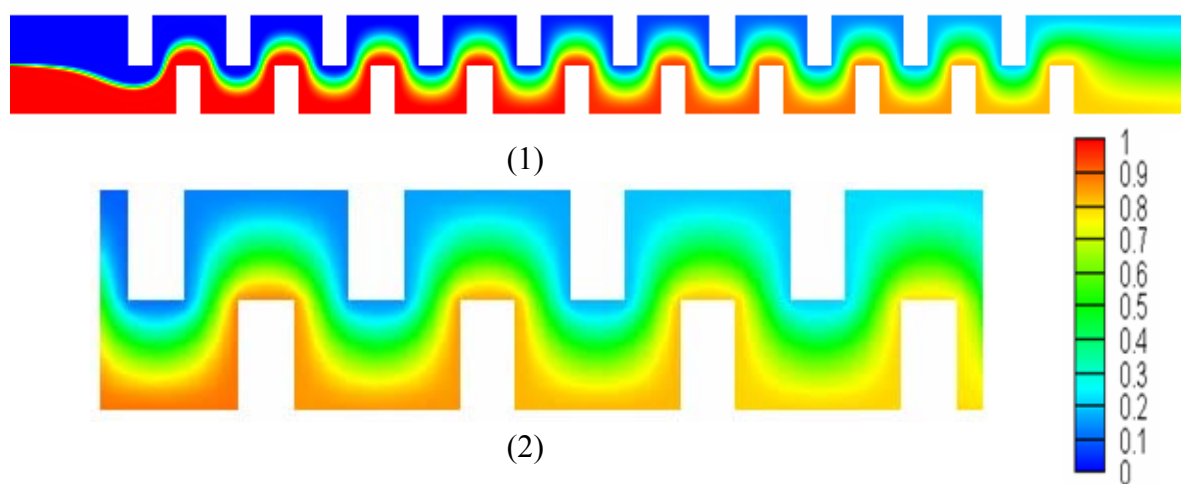
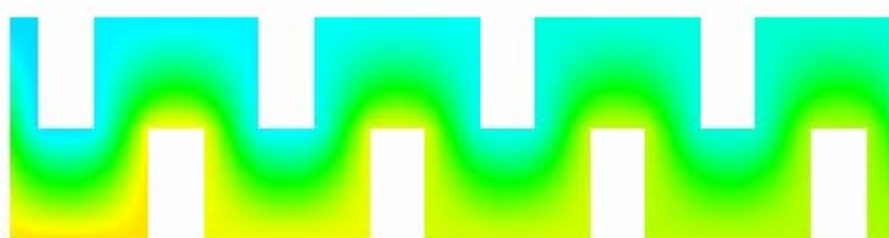


圖 4-75 Type 3 阻塊中心截面速度場





(3)



(4)



(5)



(6)



(12)

圖 4-76 Type 3 阻塊從入口到 1cm 之間中心截面濃度分佈

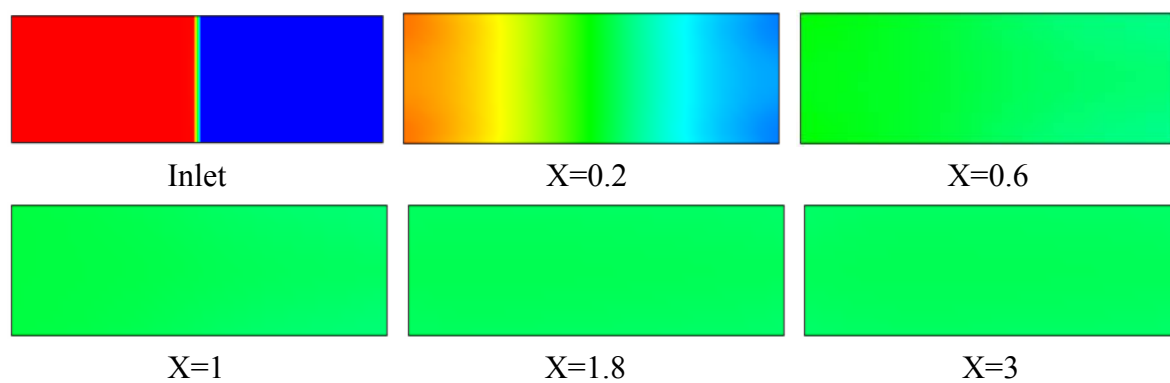


圖 4-77 Type 3 阻塊在不同  $X$  位置的截面濃度分佈

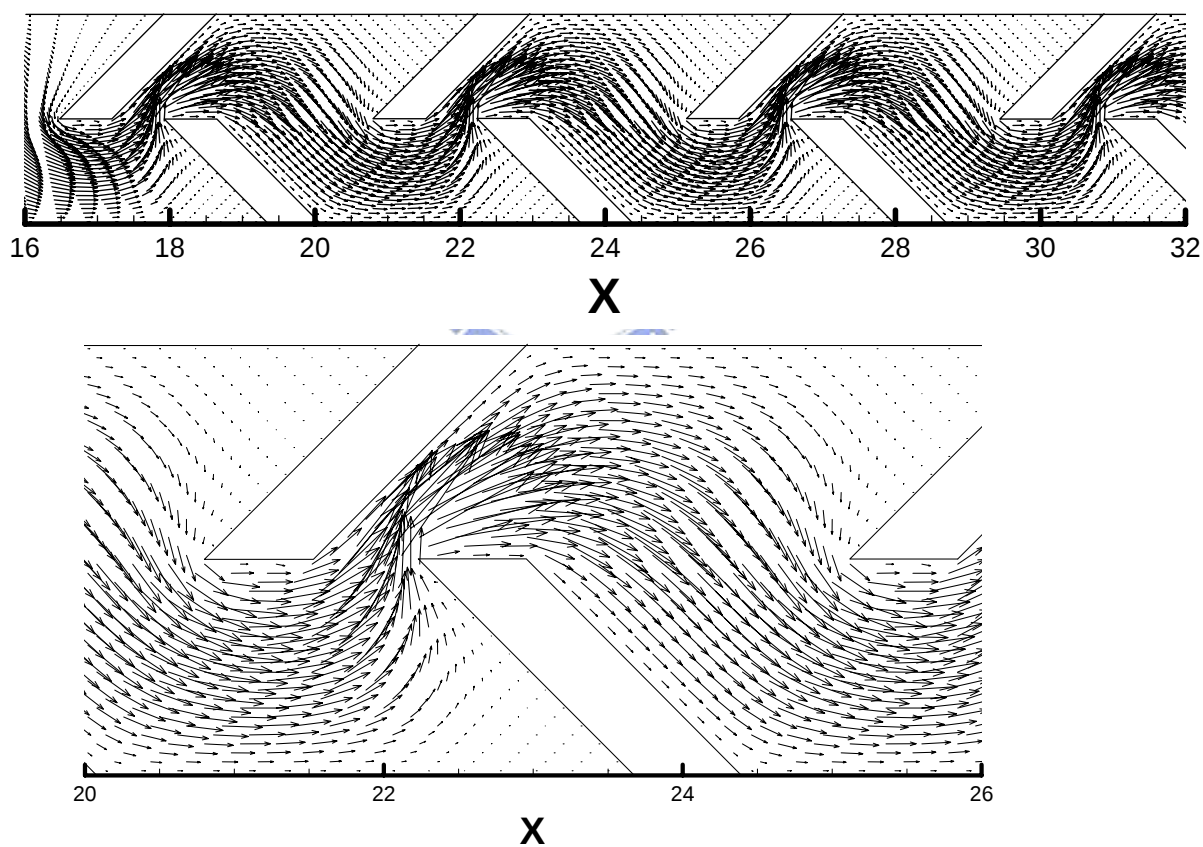


圖 4-78 Type 4 阻塊中心截面速度場

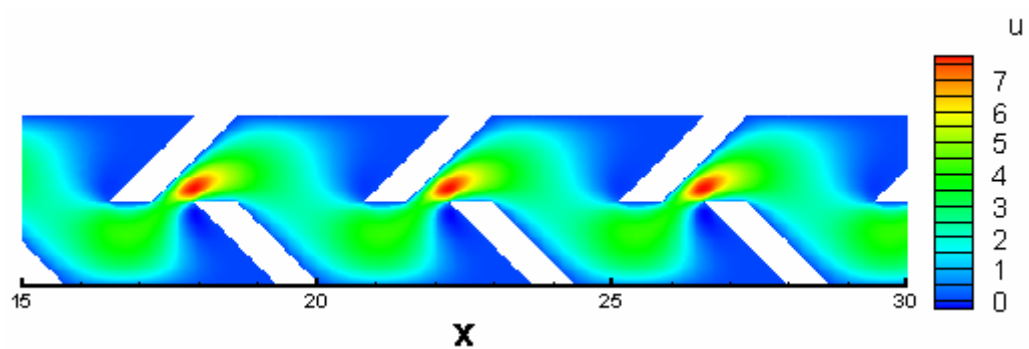
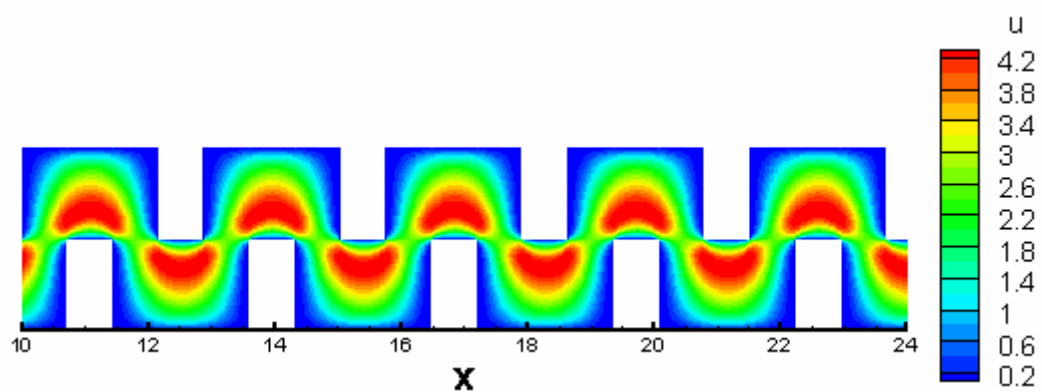


圖 4-79 Type 3 及 Type 4 阻塊中心截面速度 u-contour

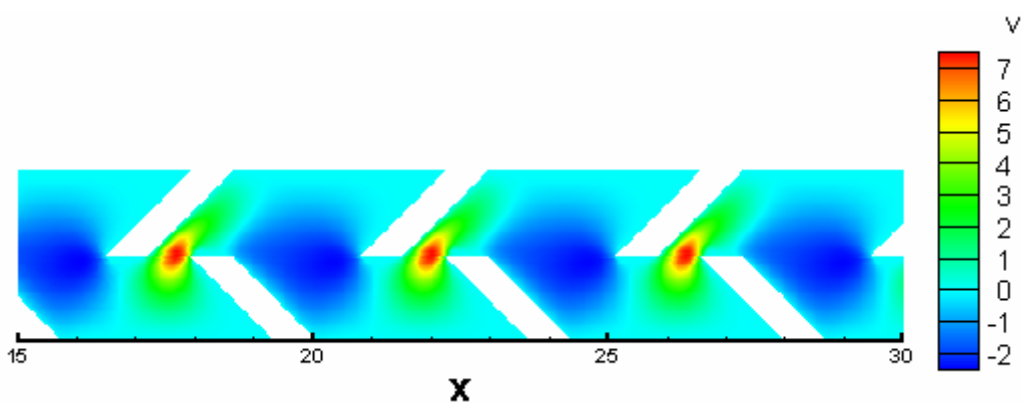
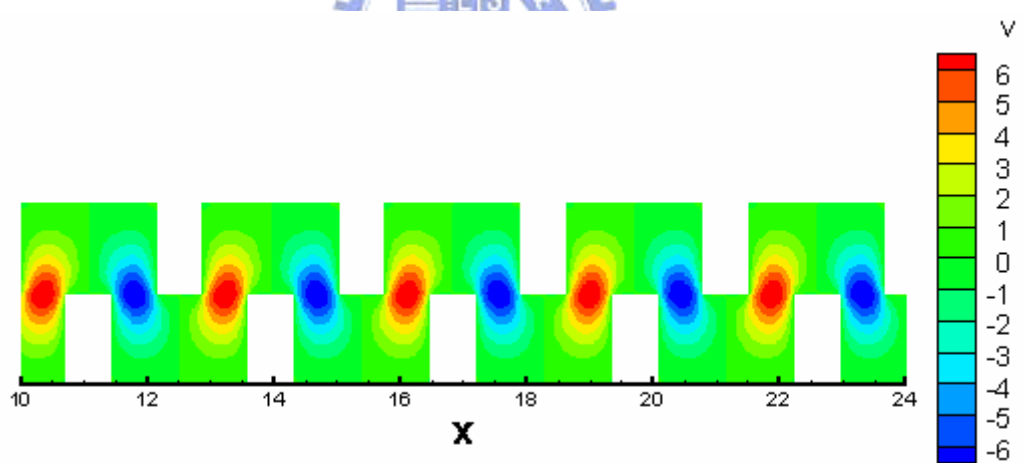


圖 4-80 Type 3 及 Type 4 阻塊中心截面速度 v-contour



(1)



(2)



(3)



(4)



(5)



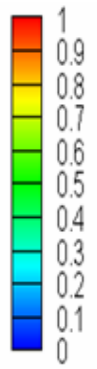
(6)



(7)



(8)





(12)



(16)



(20)



(24)

圖 4-81 Type 4 阻塊從入口到 3cm 之間中心截面濃度分佈

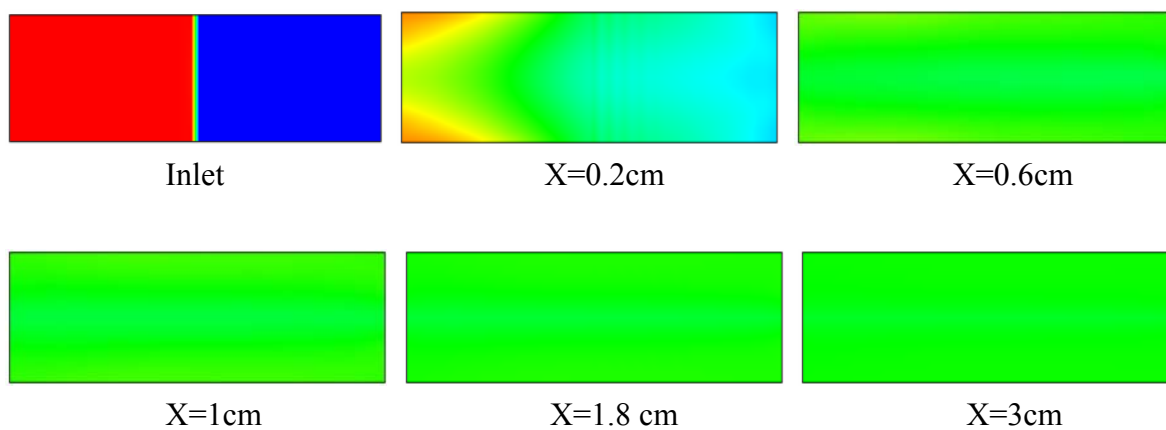


圖 4-82 Type 4 阻塊在不同 X 位置的截面濃度分佈

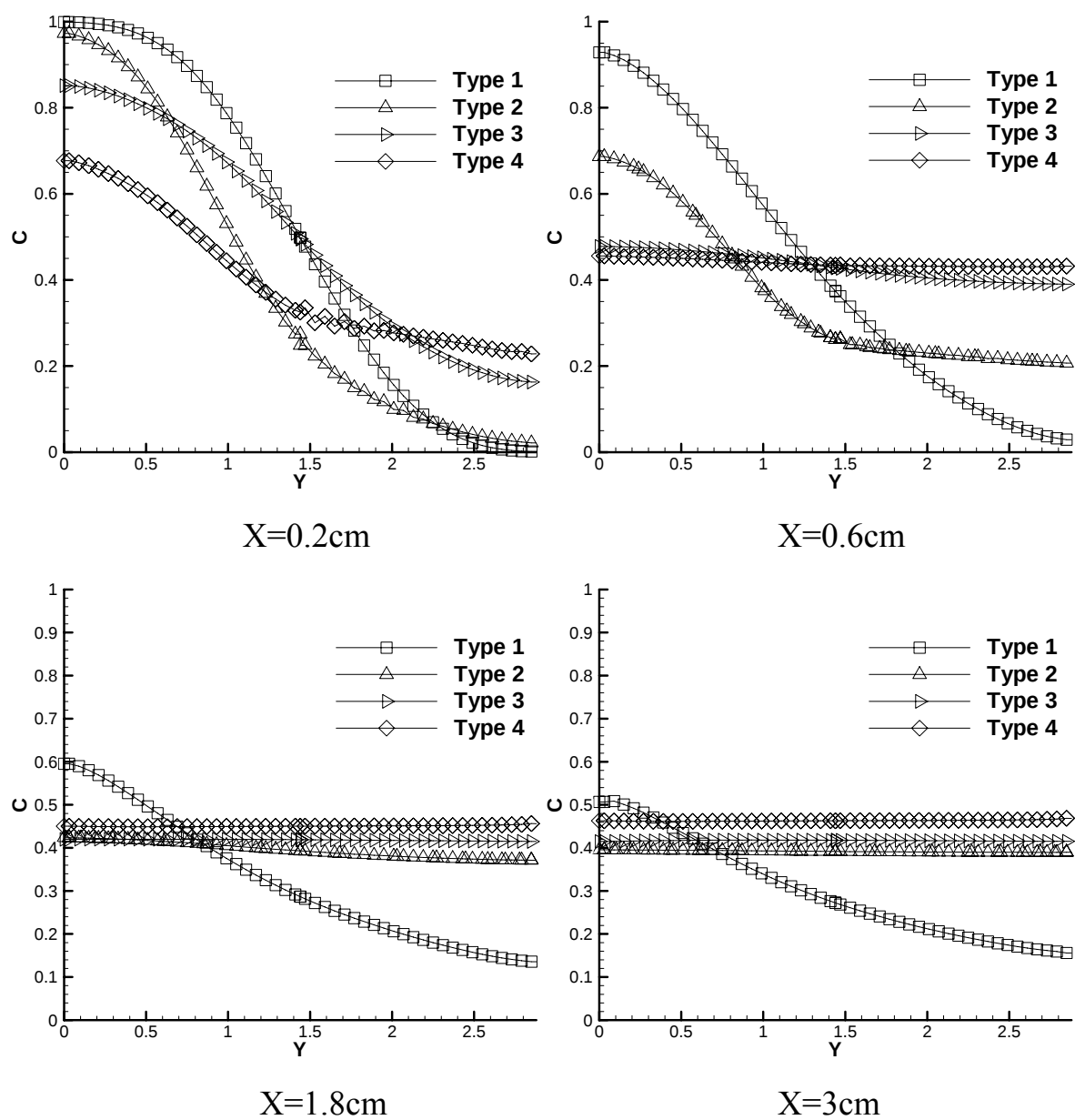
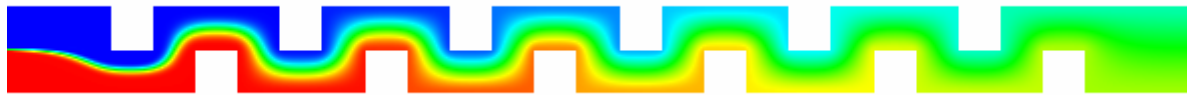


圖 4-83  $Pe = 2 \times 10^5$  時四種阻塊於不同  $X$  位置的濃度分佈



Type 1



Type 2



Type 3



Type 4

圖 4-84  $Pe = 2 \times 10^3$  時四種阻塊於截面中心的濃度分佈

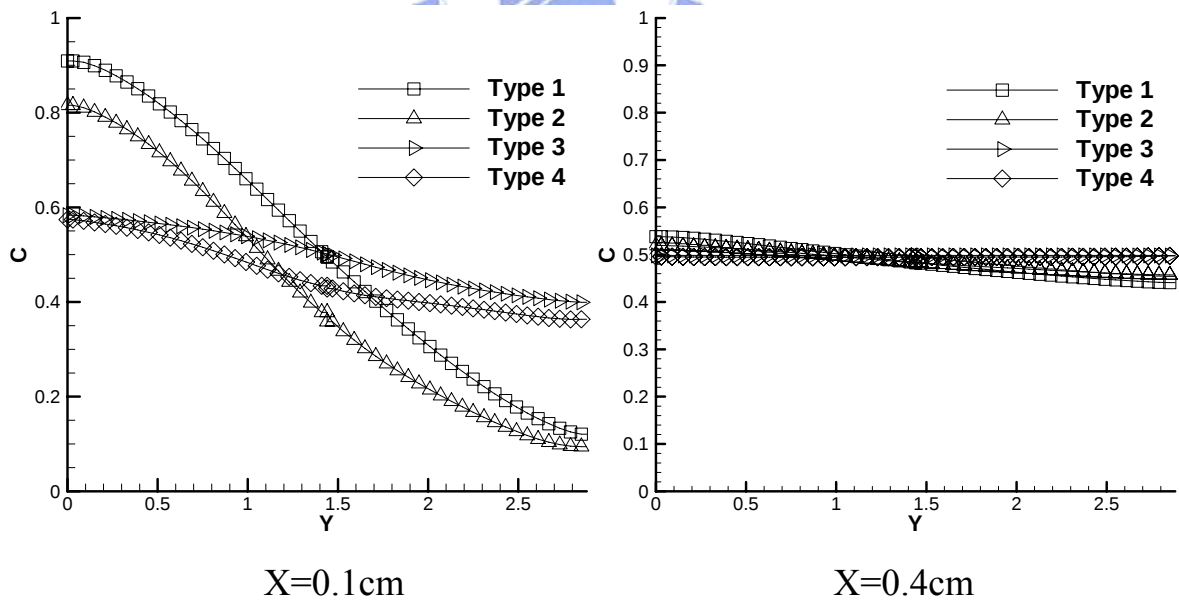


圖 4-85  $Pe = 2 \times 10^3$  時四種阻塊於不同  $X$  位置的濃度分佈

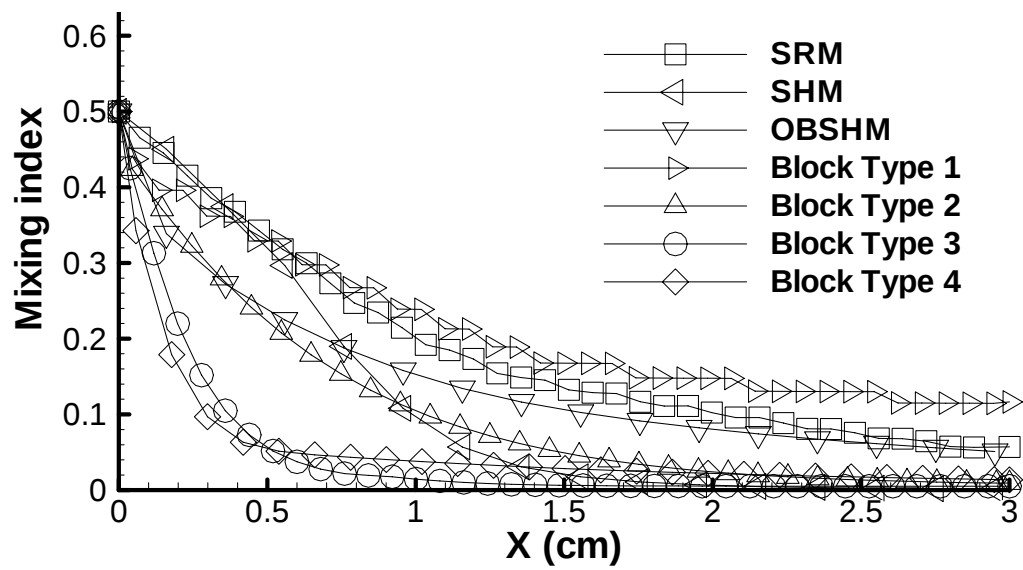


圖 4-86  $Pe = 2 \times 10^5$  四種阻塊和各型態的混合指數比較

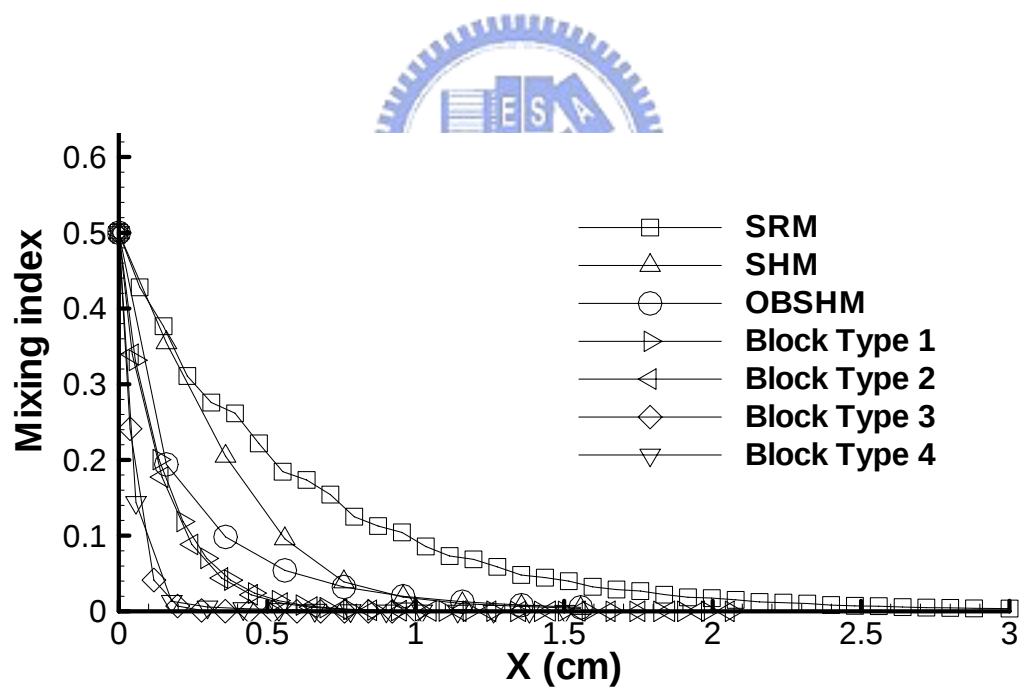


圖 4-87  $Pe = 2 \times 10^3$  四種阻塊和各型態的混合指數比較

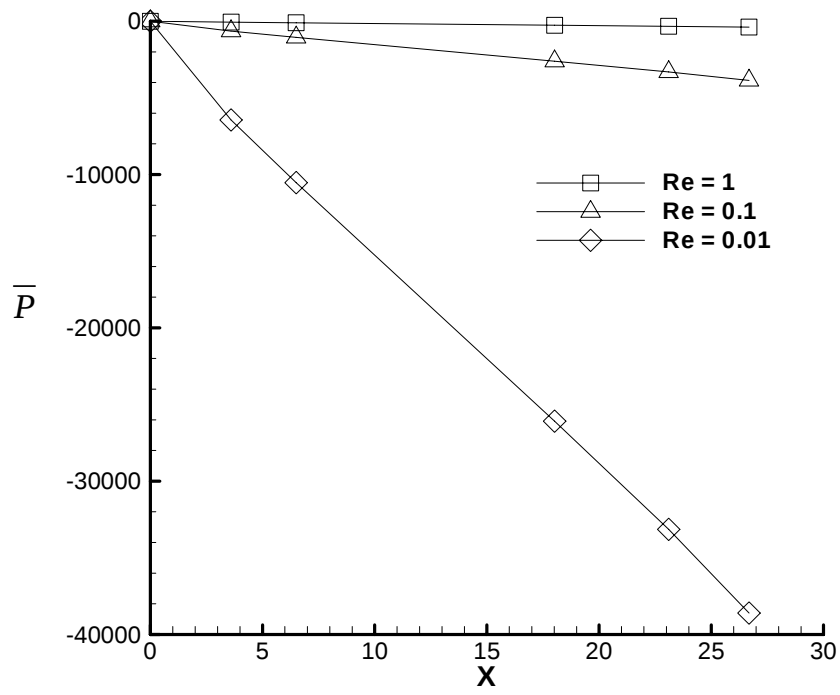


圖 4-88 SRM 於不同雷諾數時平均壓降的關係

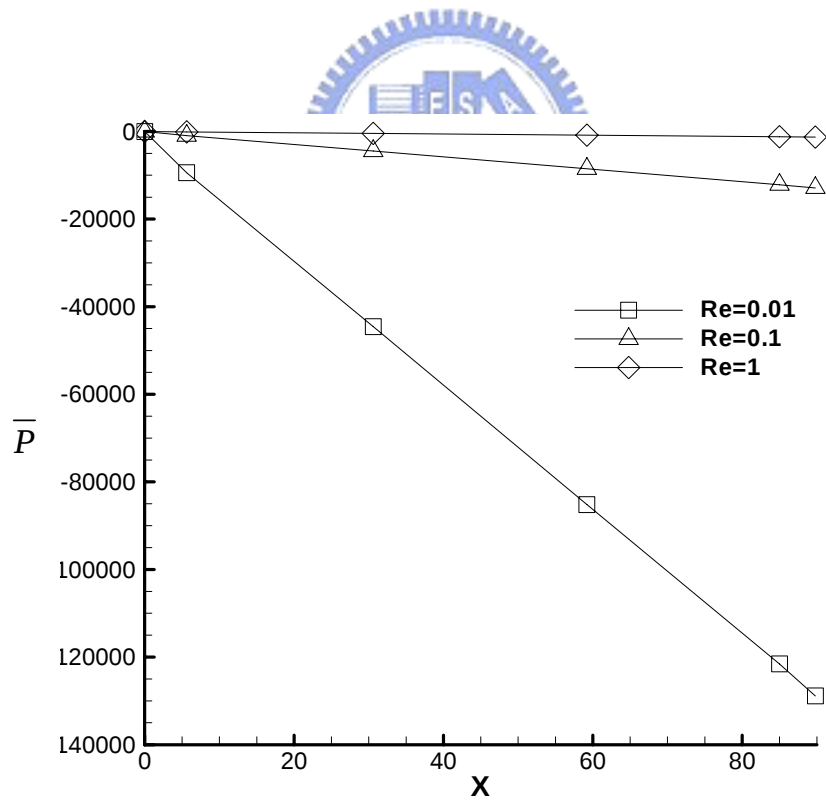


圖 4-89 SHM 於不同雷諾數時平均壓降的關係

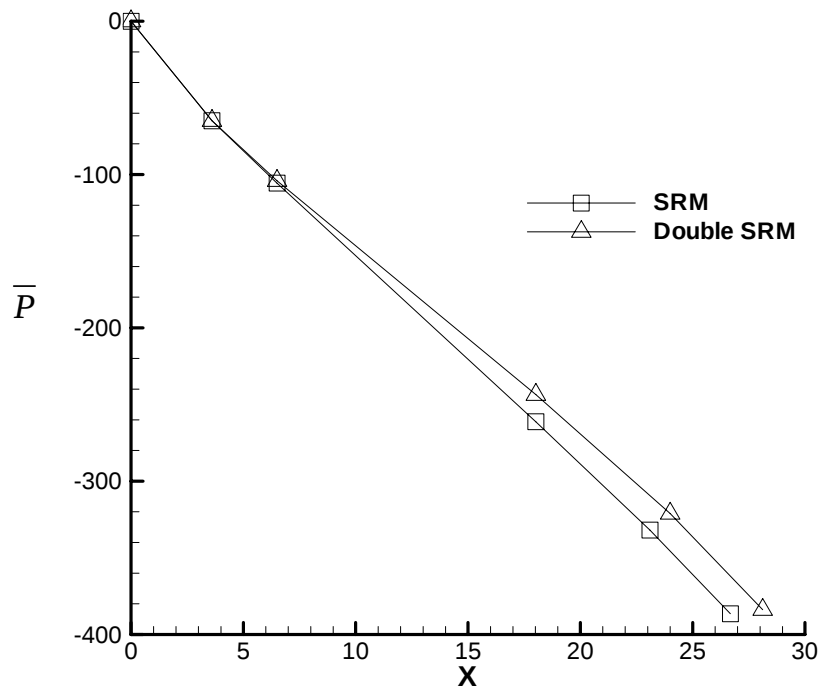


圖 4-90 Double SRM 與平均壓降的關係， $Re=1$ ， $Pe=2\times 10^5$

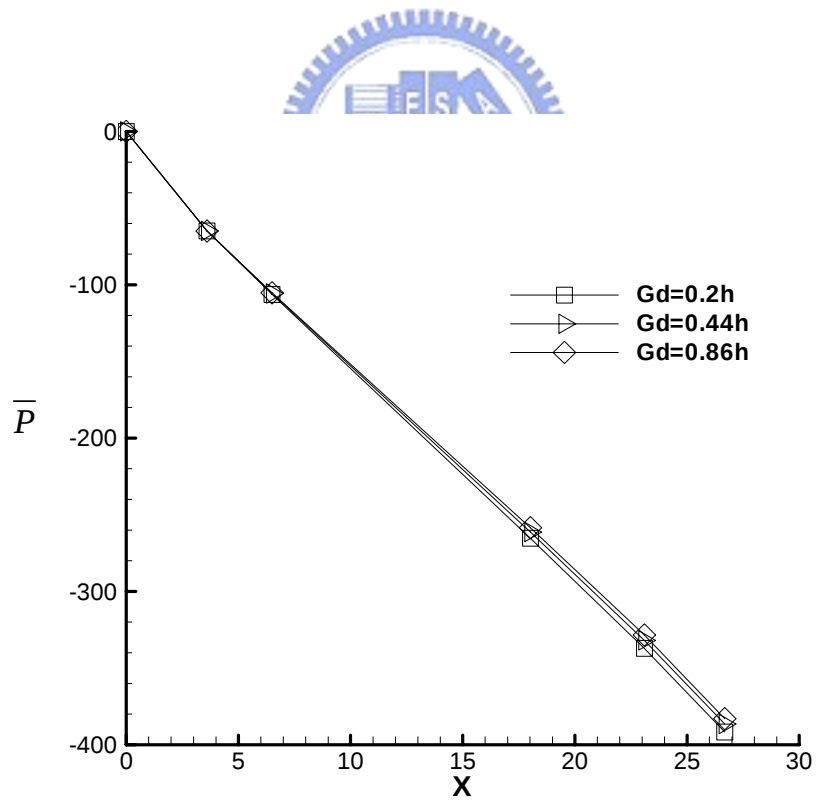


圖 4-91 SRM 凹槽深度改變時與平均壓降的關係， $Re=1$ ， $Pe=2\times 10^5$

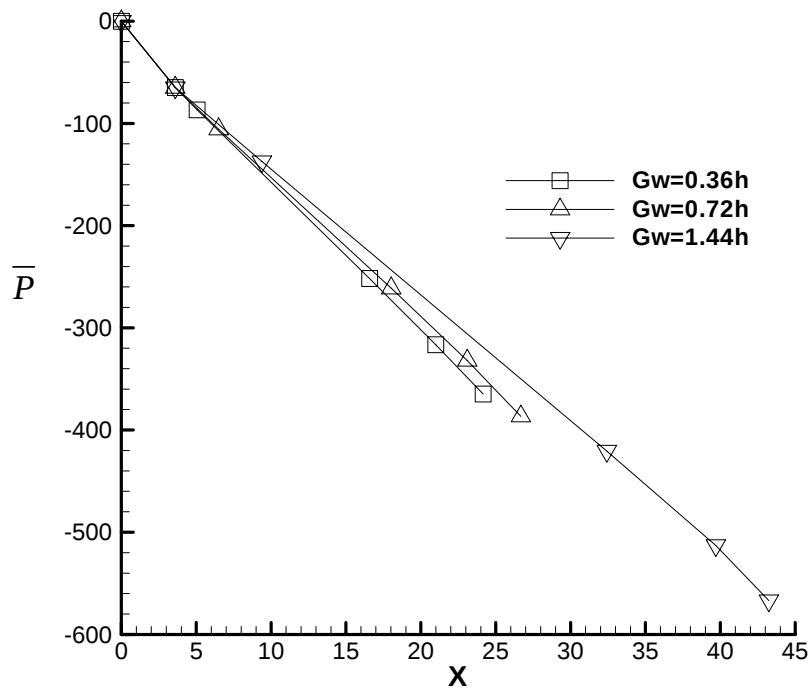


圖 4-92 SRM 凹槽寬度改變時與平均壓降的關係， $Re=1$ ， $Pe=2\times 10^5$

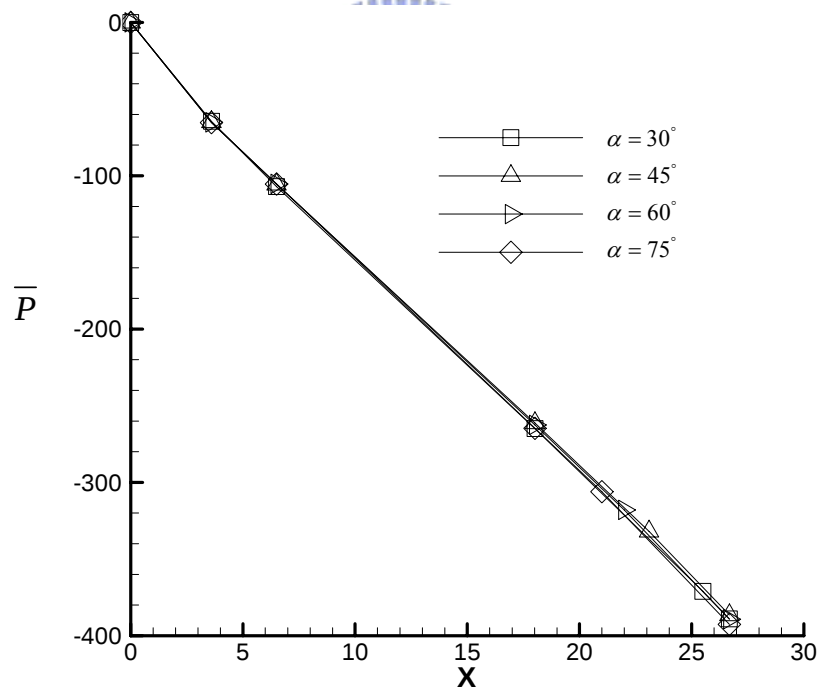


圖 4-93 SRM 凹槽傾角改變時與平均壓降的關係， $Re=1$ ， $Pe=2\times 10^5$

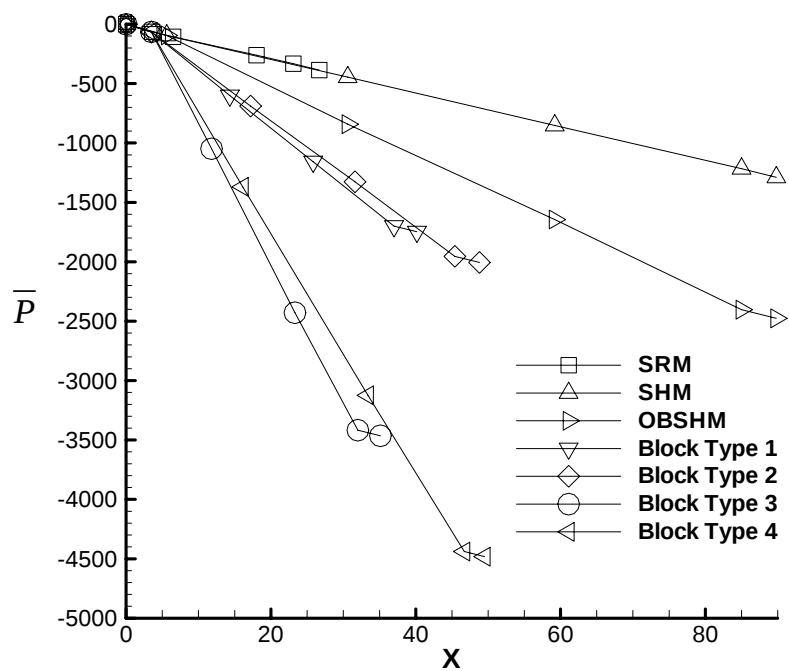


圖 4-94 各型態平均壓降比較， $Re=1$ ， $Pe=2 \times 10^5$

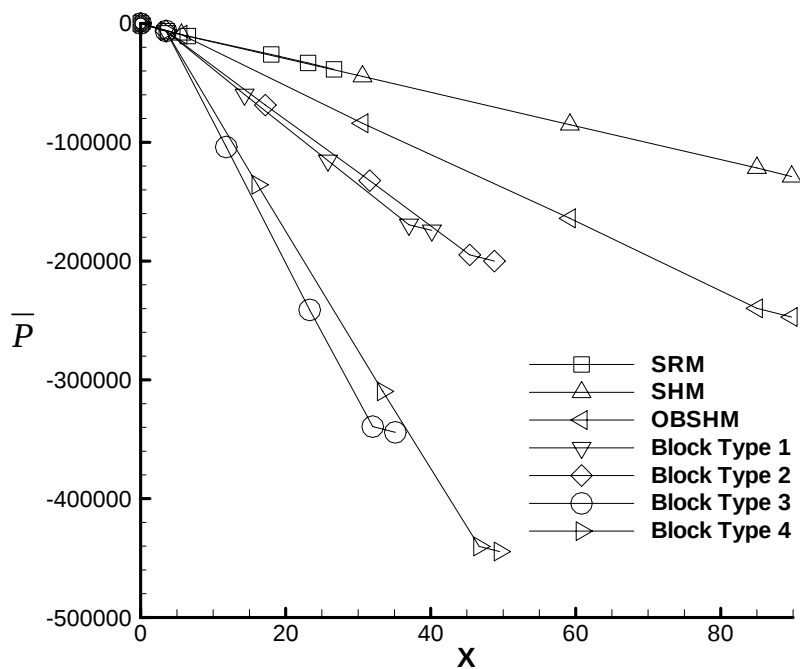


圖 4-95 各型態平均壓降比較， $Re=0.01$ ， $Pe=2 \times 10^3$