

Figure 3.8 Axial mean velocity deficit profiles for (a) plane and (b) ring wake

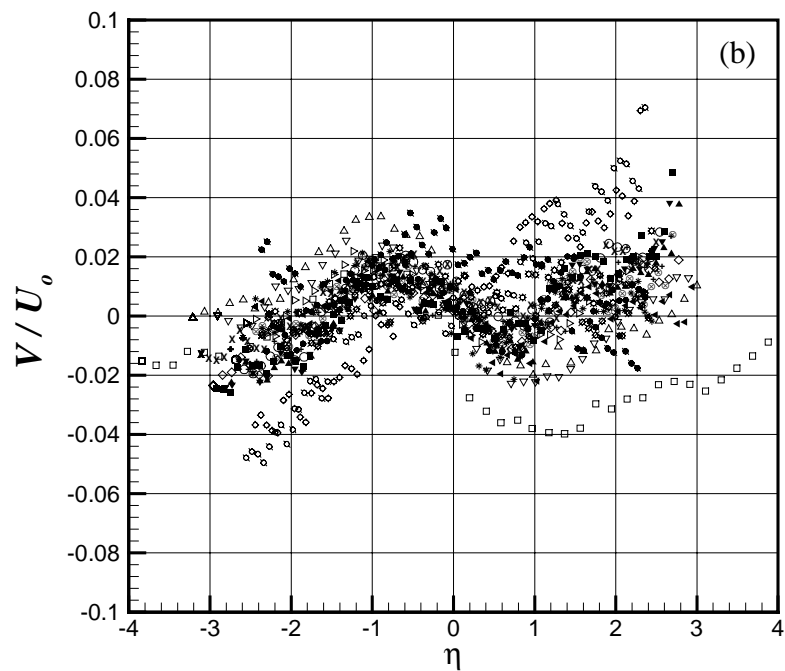
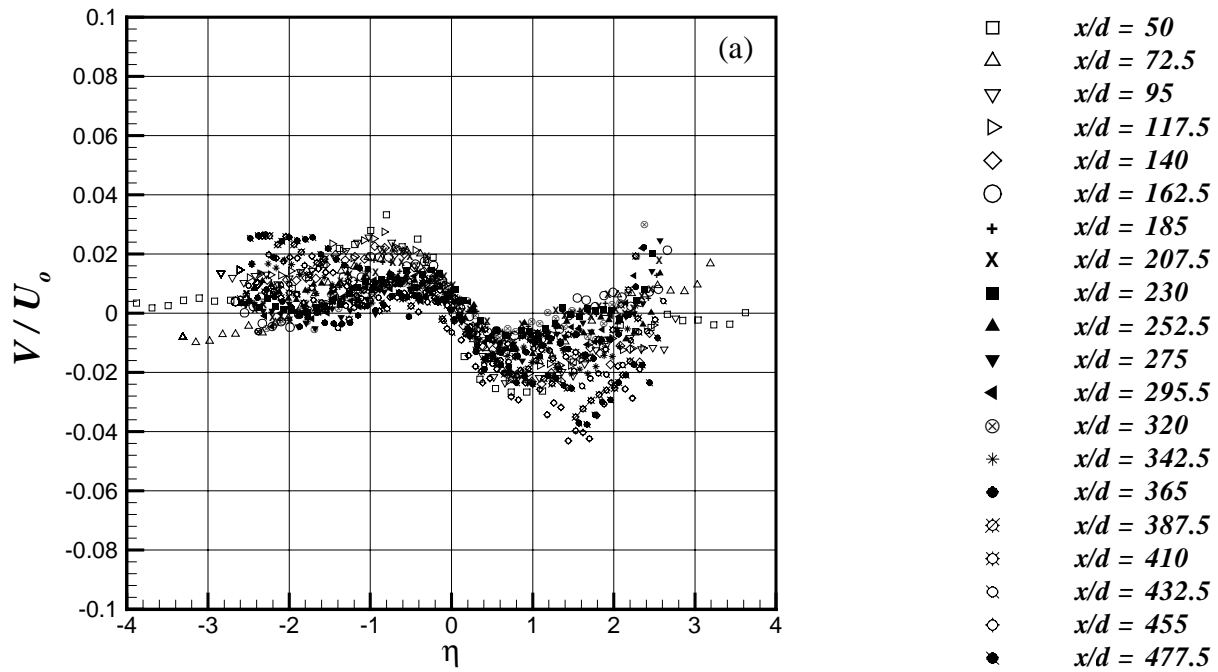


Figure 3.9 Lateral mean velocity, V profiles for (a) plane and (b) ring wake

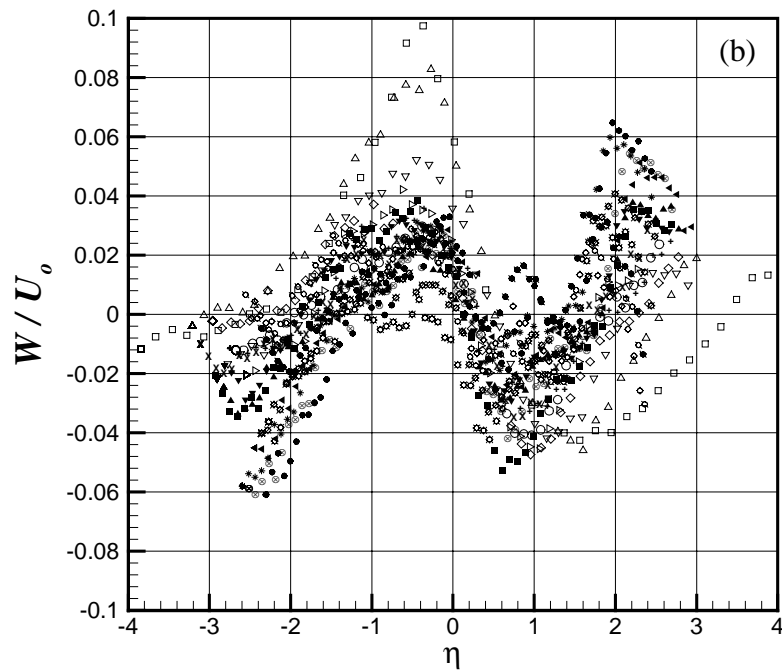
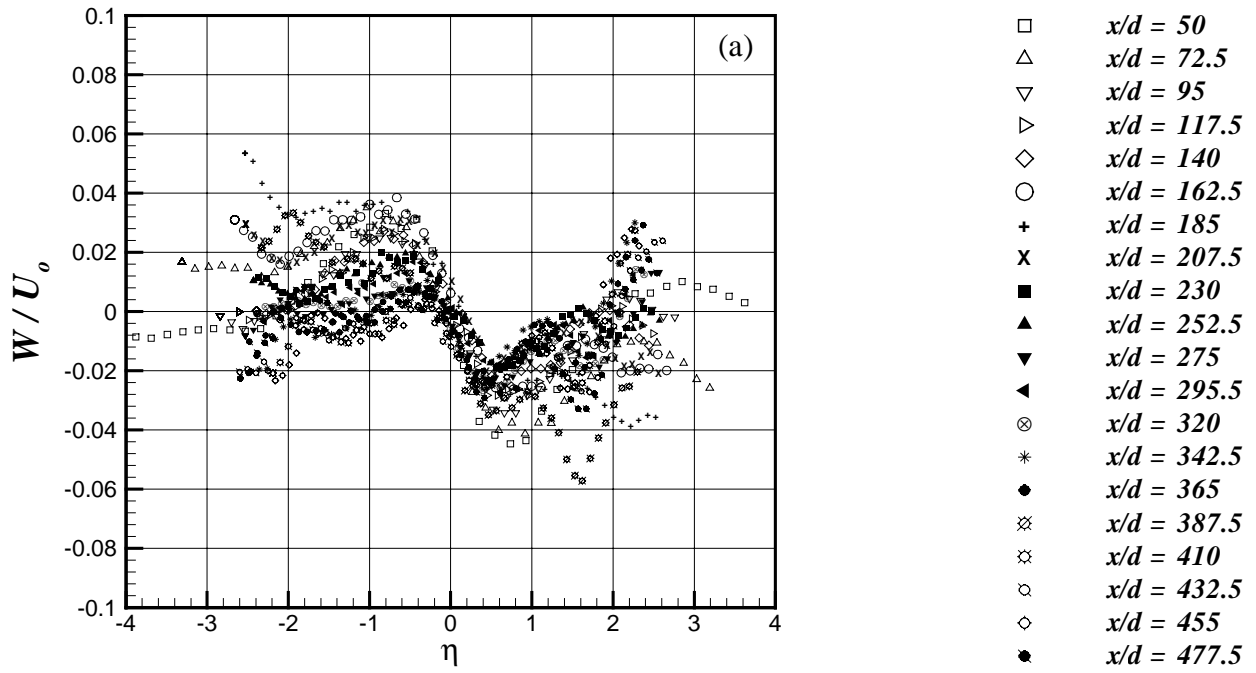
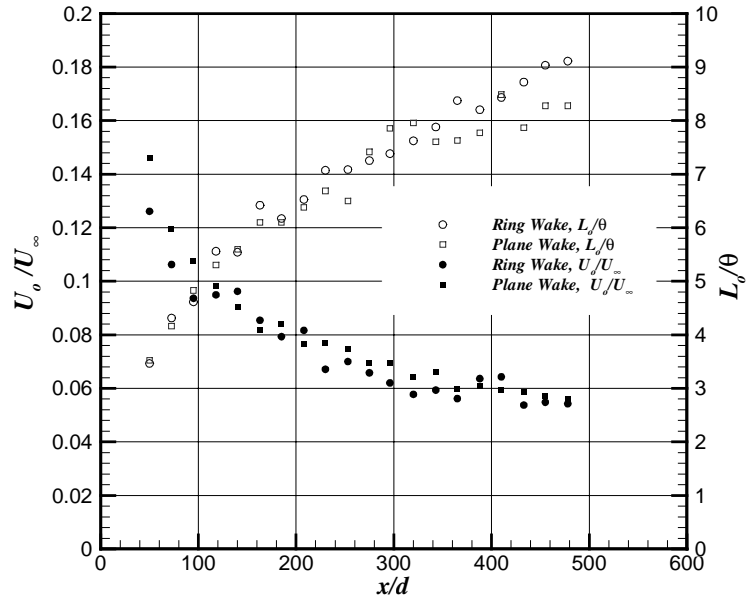
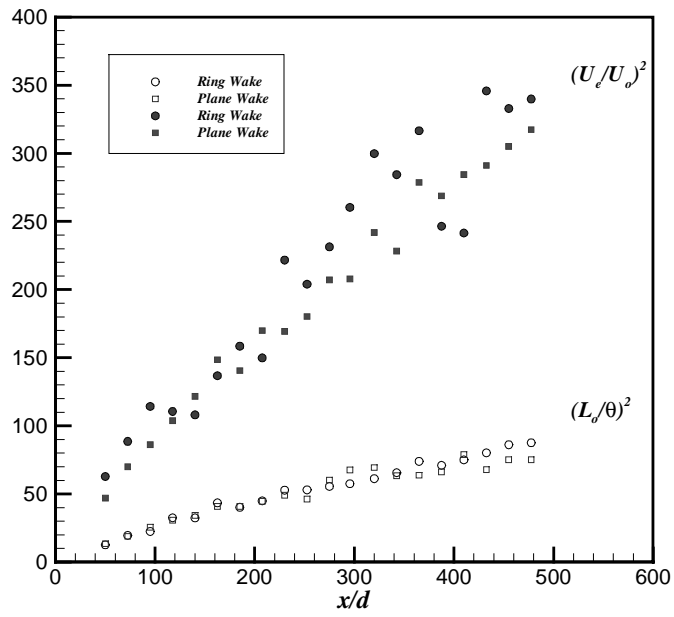


Figure 3.10 Spanwise mean velocity, W profiles for (a) plane and (b) ring wake



(a)



(b)

Figure 3.11 Streamwise variation of velocity and length scales for both wakes in (a) and (b)

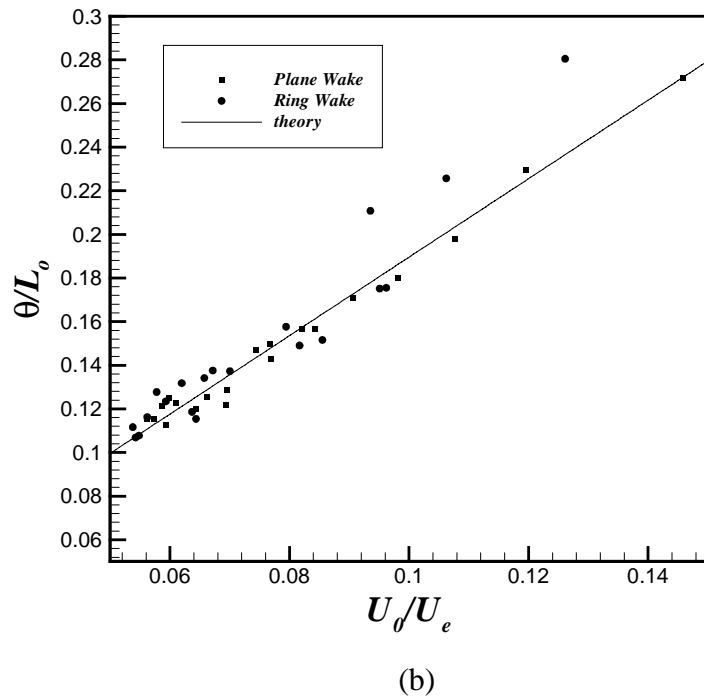
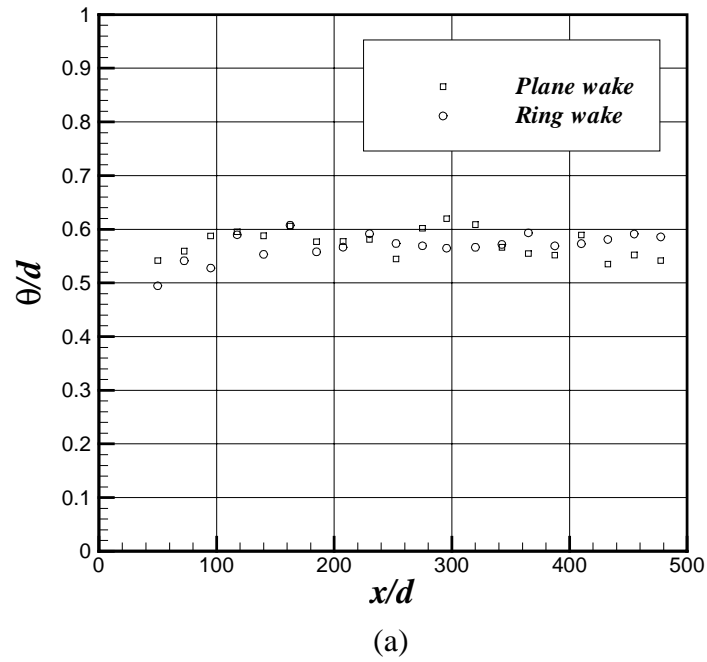


Figure 3.12 Variation of (a) momentum thickness and (b) θ/L_0 with U_d/U_e for both wakes

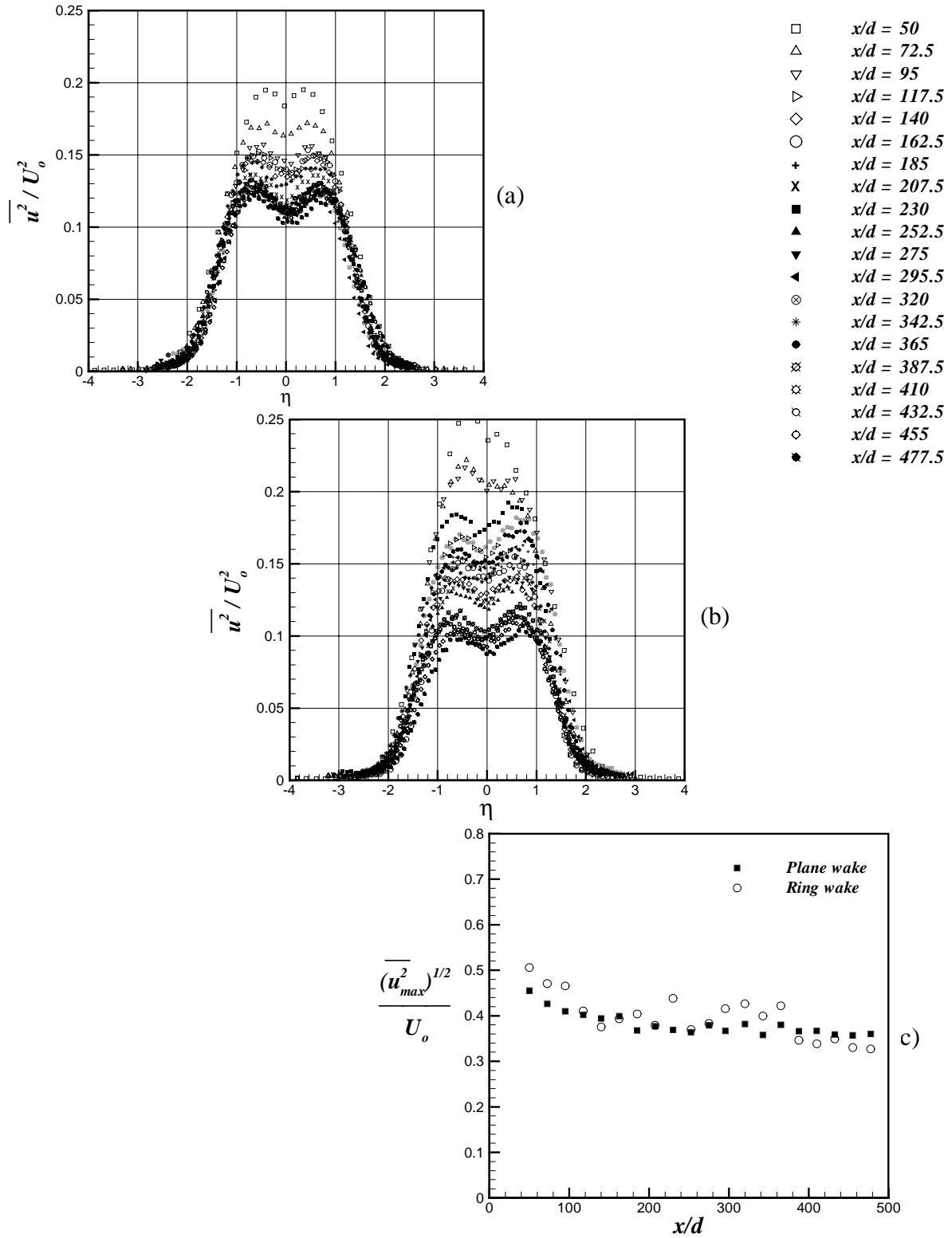


Figure 3.13 The distributions of g_{11} for the (a) plane wake (b) ring wake and (c) variation of $(\overline{u_{max}^2})^{1/2}/U_o$ for $50 \leq x/d < 500$

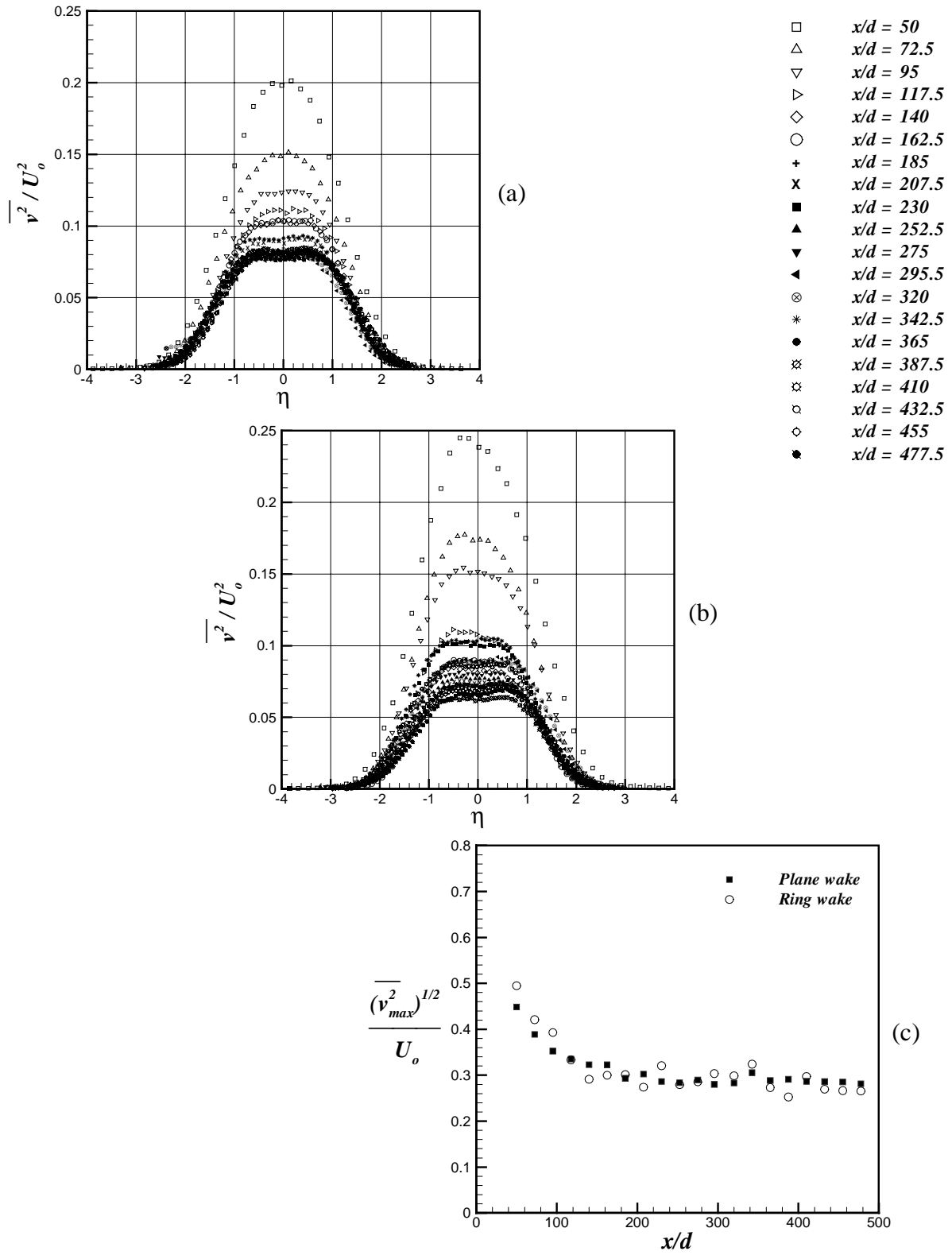


Figure 3.14 The distributions of g_{22} for the (a) plane wake (b) ring wake and (c) variation of $\frac{(\overline{v_{max}^2})^{1/2}}{U_o}$ for $50 \leq x/d < 500$

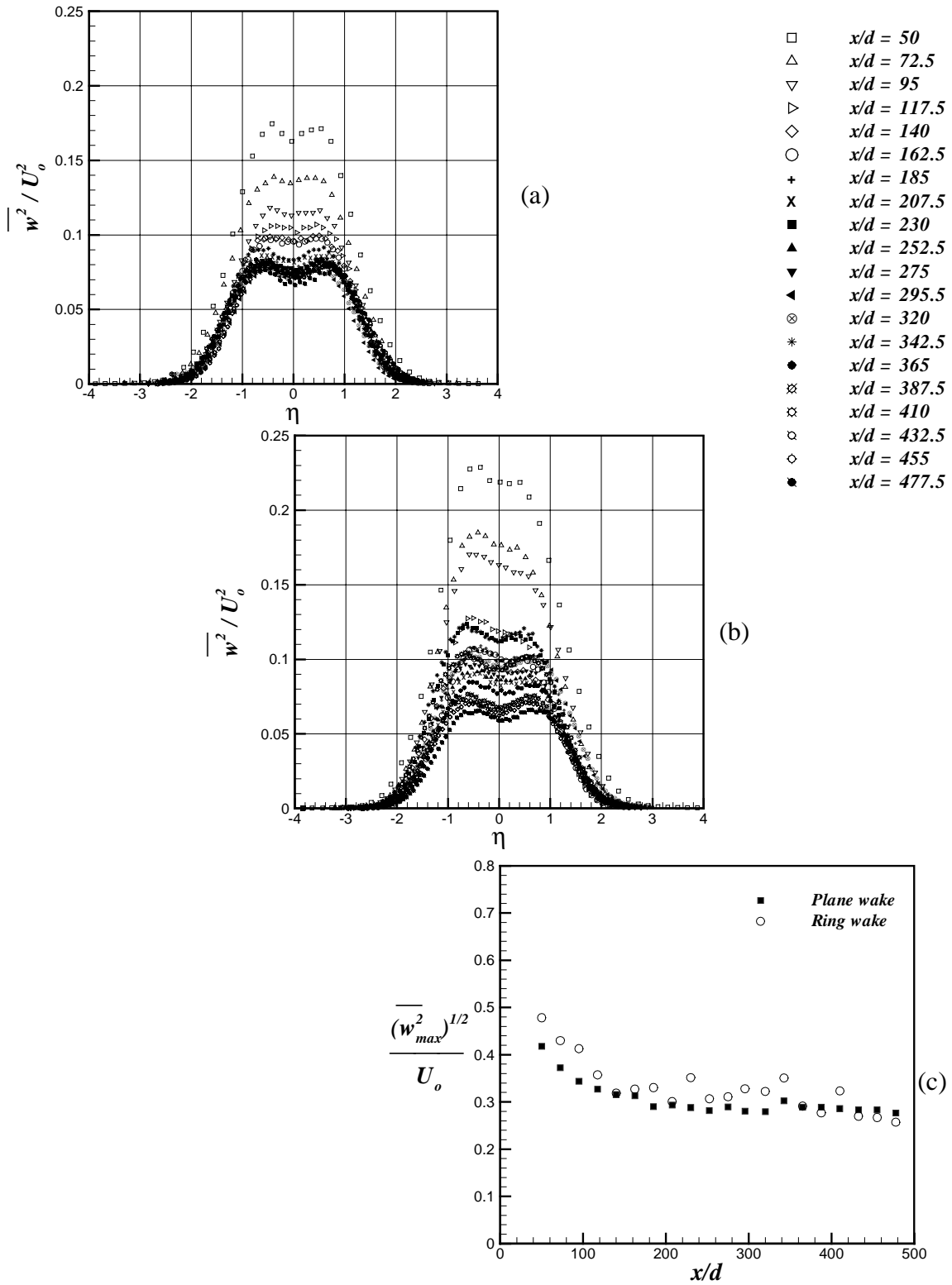


Figure 3.15 The distributions of g_{33} for the (a) plane wake (b) ring wake and (c) variation of $(\overline{w_{max}^2})^{1/2} / U_o$ for $50 \leq x/d < 500$

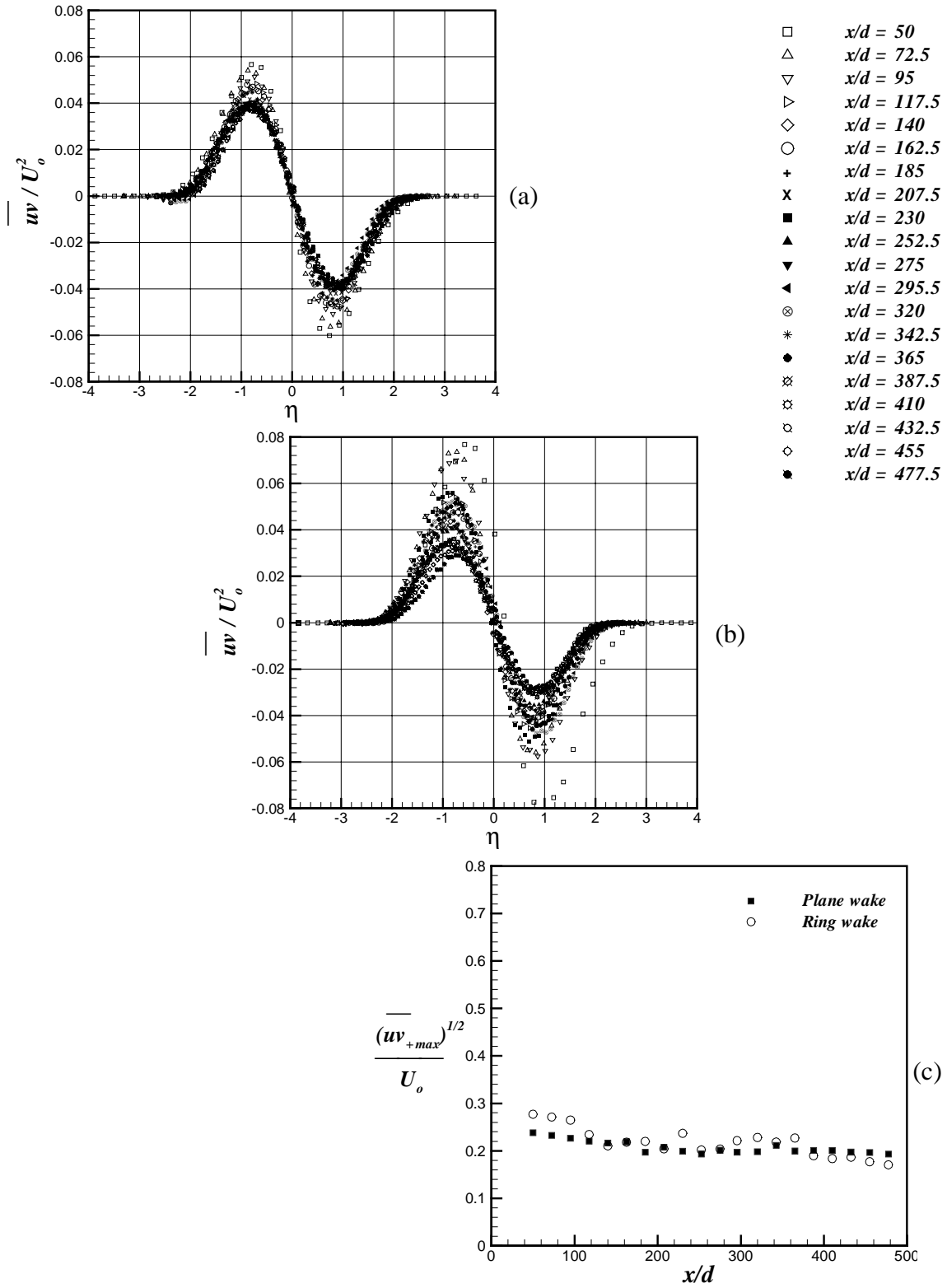


Figure 3.16 The distributions of g_{12} for the (a) plane wake (b) ring wake and (c) variation of $\frac{(\overline{uv}_{+max})^{1/2}}{U_0}$ for $50 \leq x/d < 500$

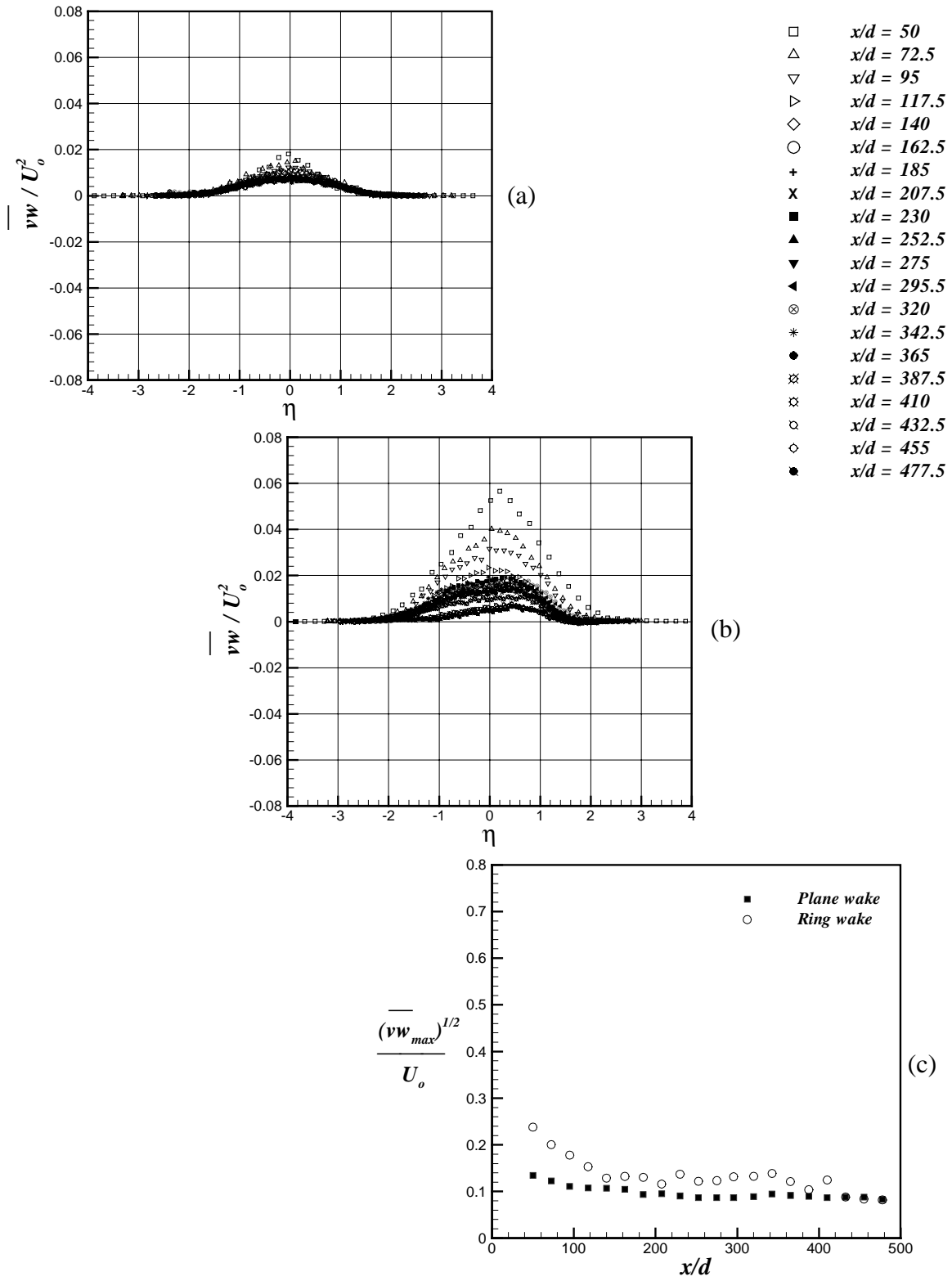


Figure 3.17 The distributions of g_{23} for the (a) plane wake (b) ring wake and (c) variation of $\frac{(\overline{vw}_{max})^{1/2}}{U_o}$ for $50 \leq x/d < 500$

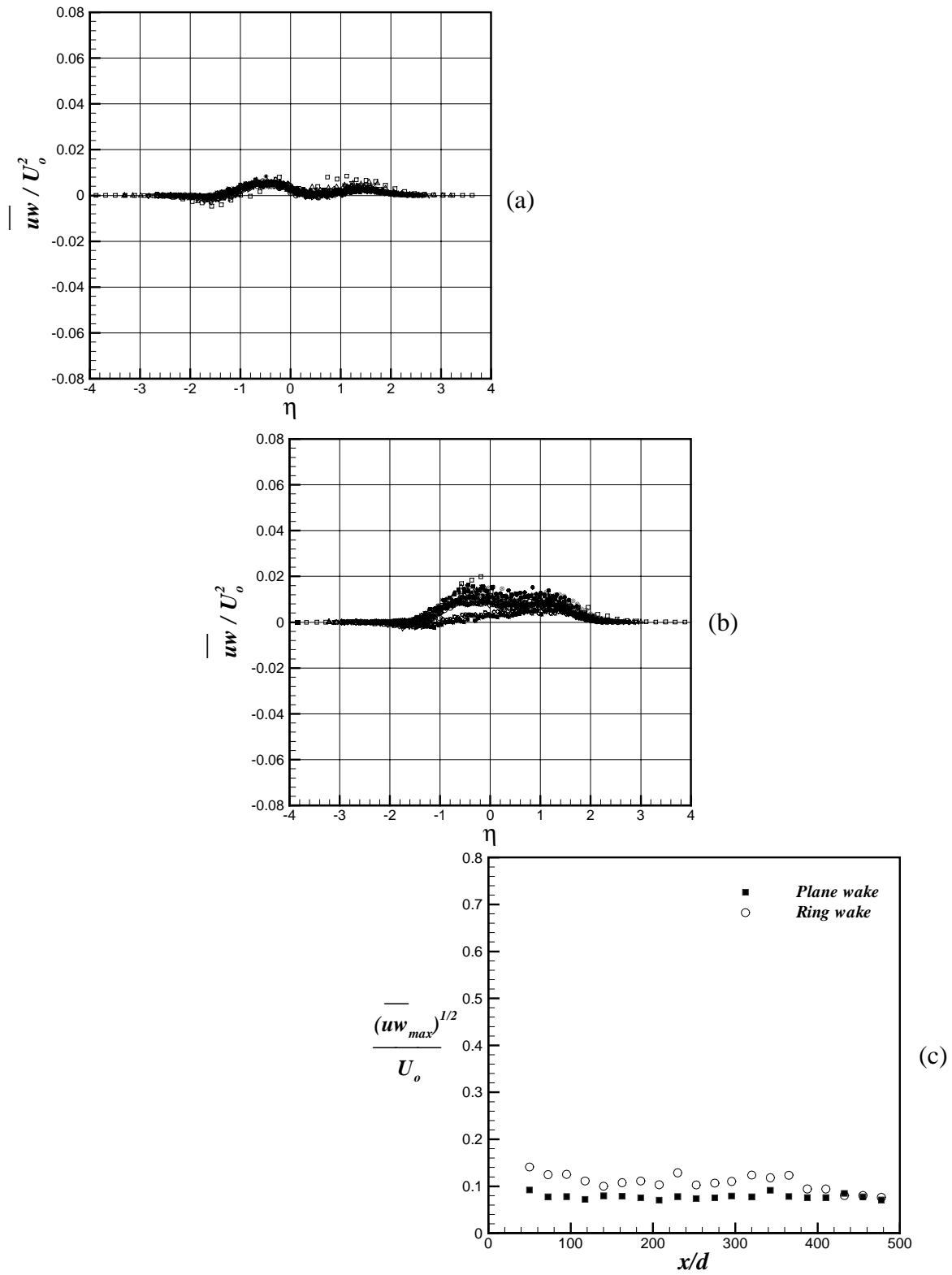


Figure 3.18 The distributions of g_{13} for the (a) plane wake (b) ring wake and (c) variation of $(\overline{uw}_{max})^{1/2} / U_o$ for $50 \leq x/d < 500$

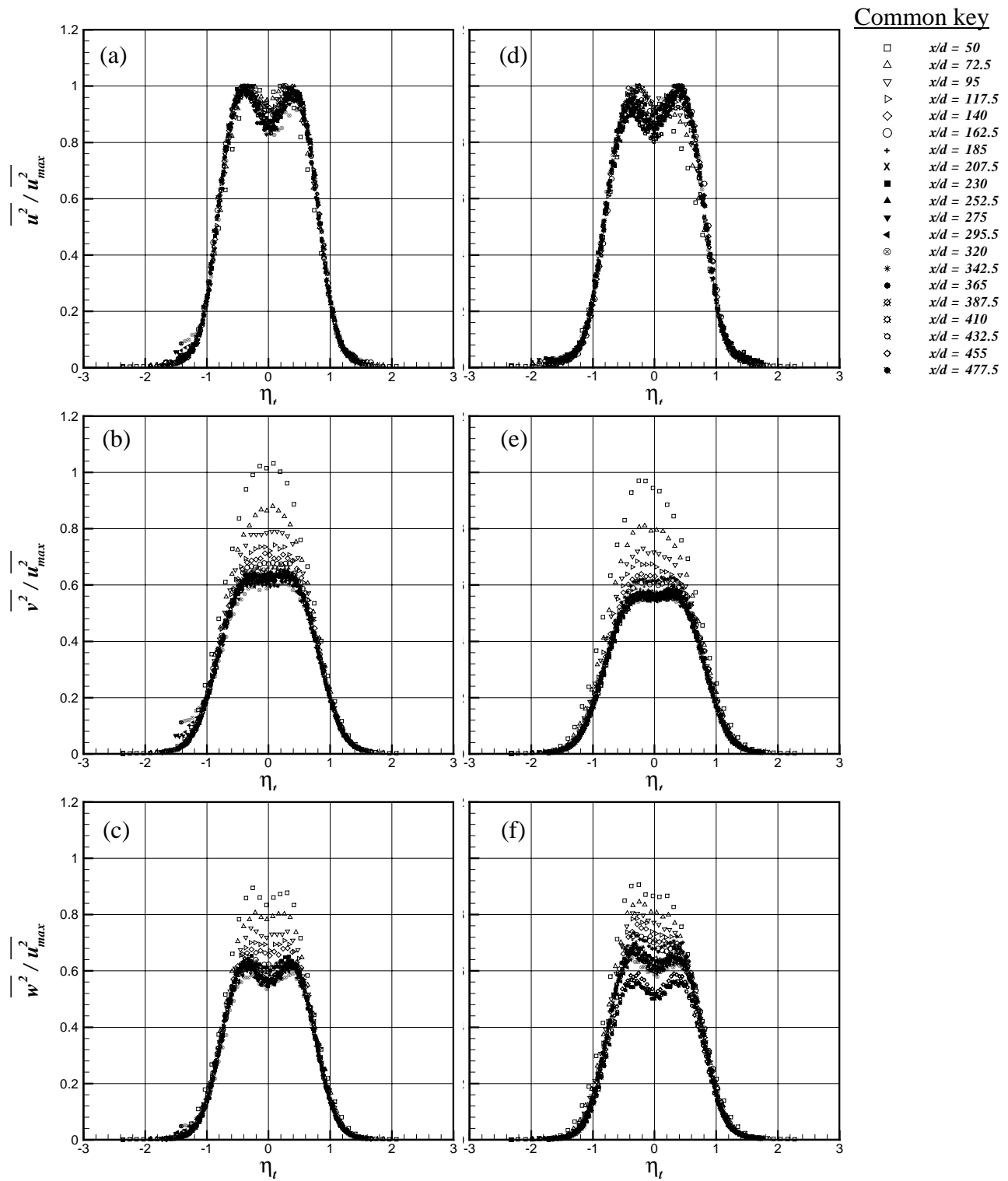


Figure 3.19 Reynolds normal stress profiles for the plane wake (a), (b), & (c) and for the ring wake (d), (e), & (f)

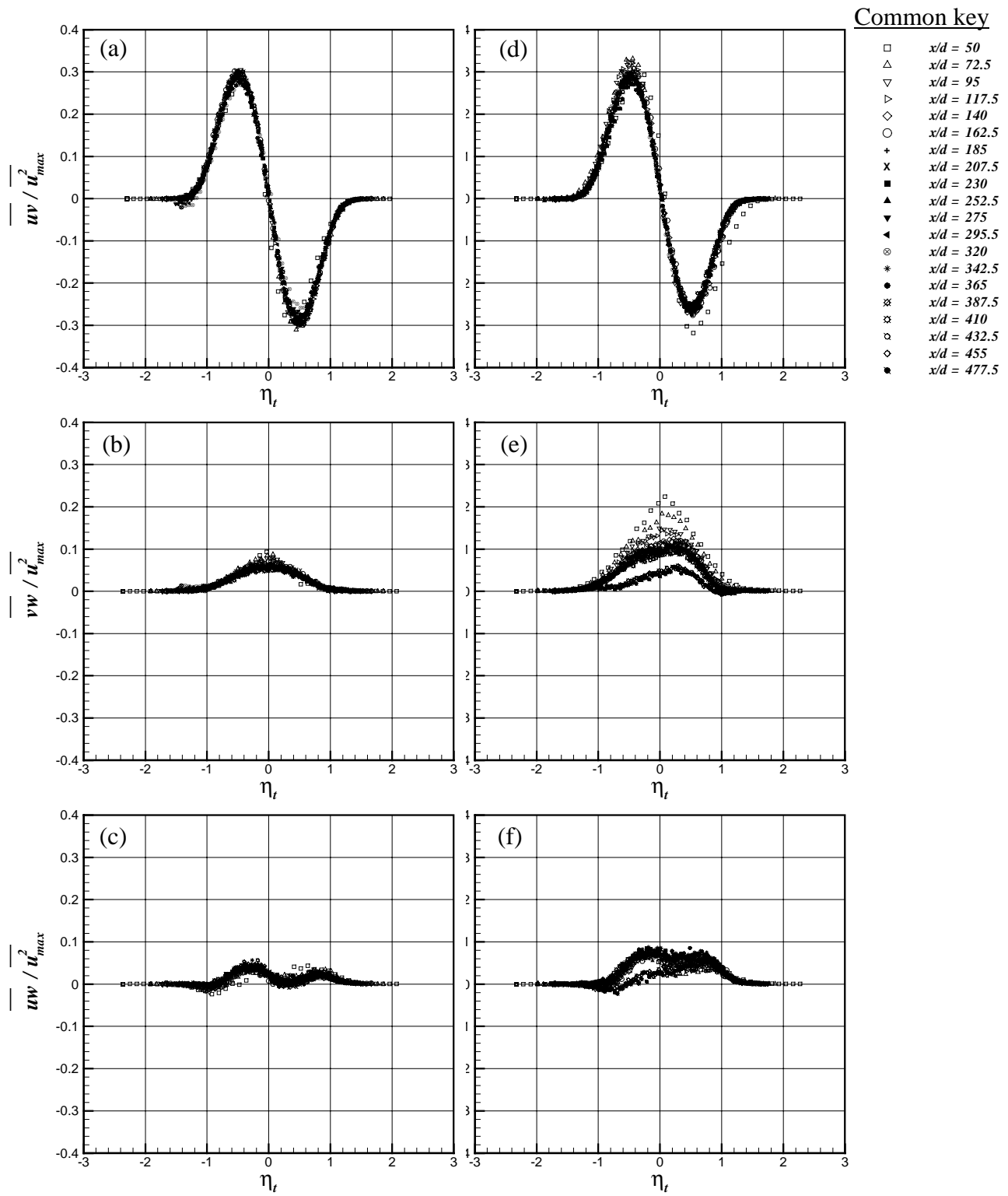


Figure 3.20 Reynolds shear stress profiles for the plane wake (a), (b), & (c) and for the ring wake (d), (e), & (f)

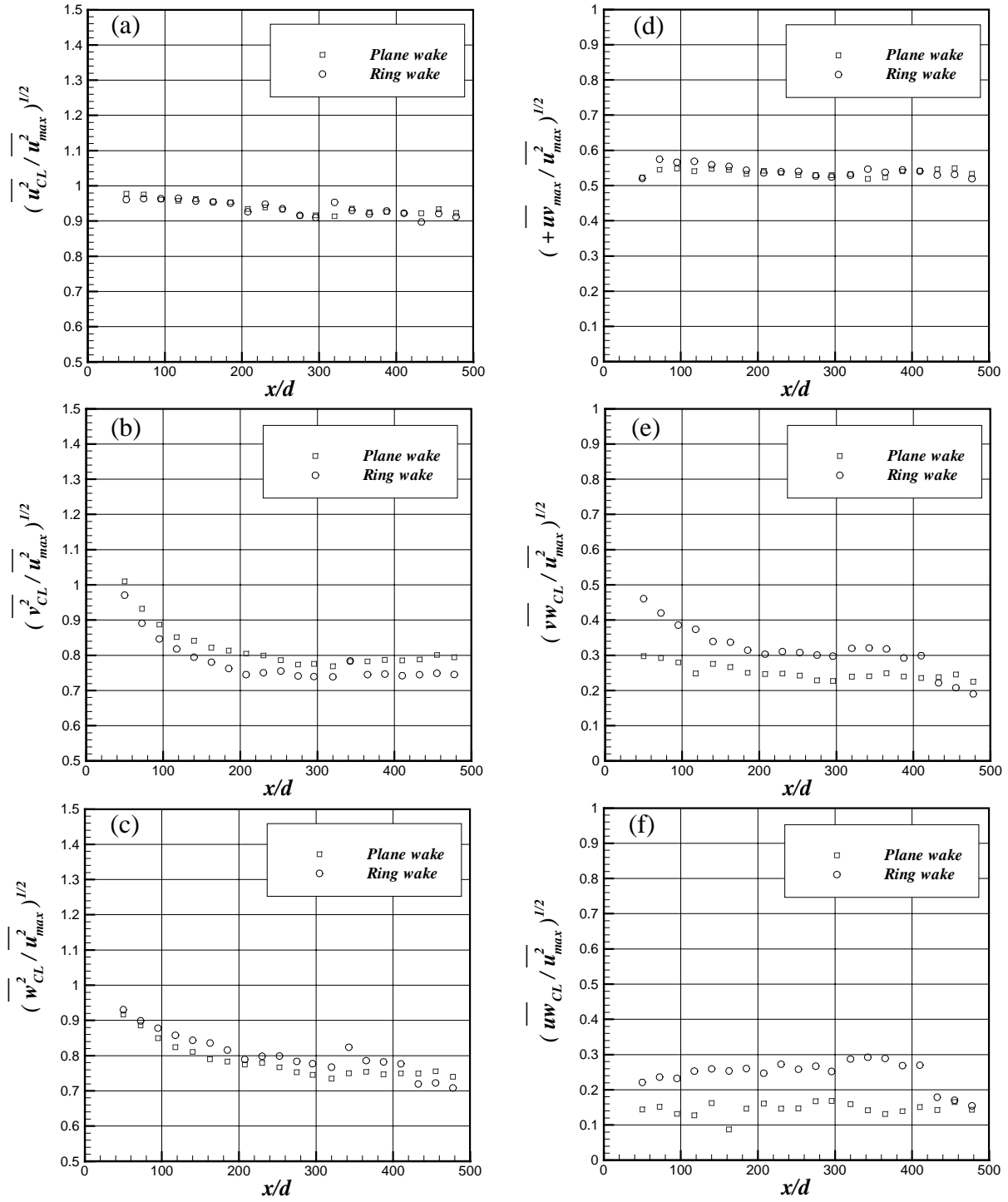


Figure 3.21 Variations of $\sqrt{\overline{u^2_{CL}} / \overline{u^2_{max}}}$, $\sqrt{\overline{v^2_{CL}} / \overline{u^2_{max}}}$, $\sqrt{\overline{w^2_{CL}} / \overline{u^2_{max}}}$, $\sqrt{\overline{+uw_{max}} / \overline{u^2_{max}}}$, $\sqrt{\overline{vw_{CL}} / \overline{u^2_{max}}}$, and $\sqrt{\overline{uw_{CL}} / \overline{u^2_{max}}}$ for the plane and ring wake

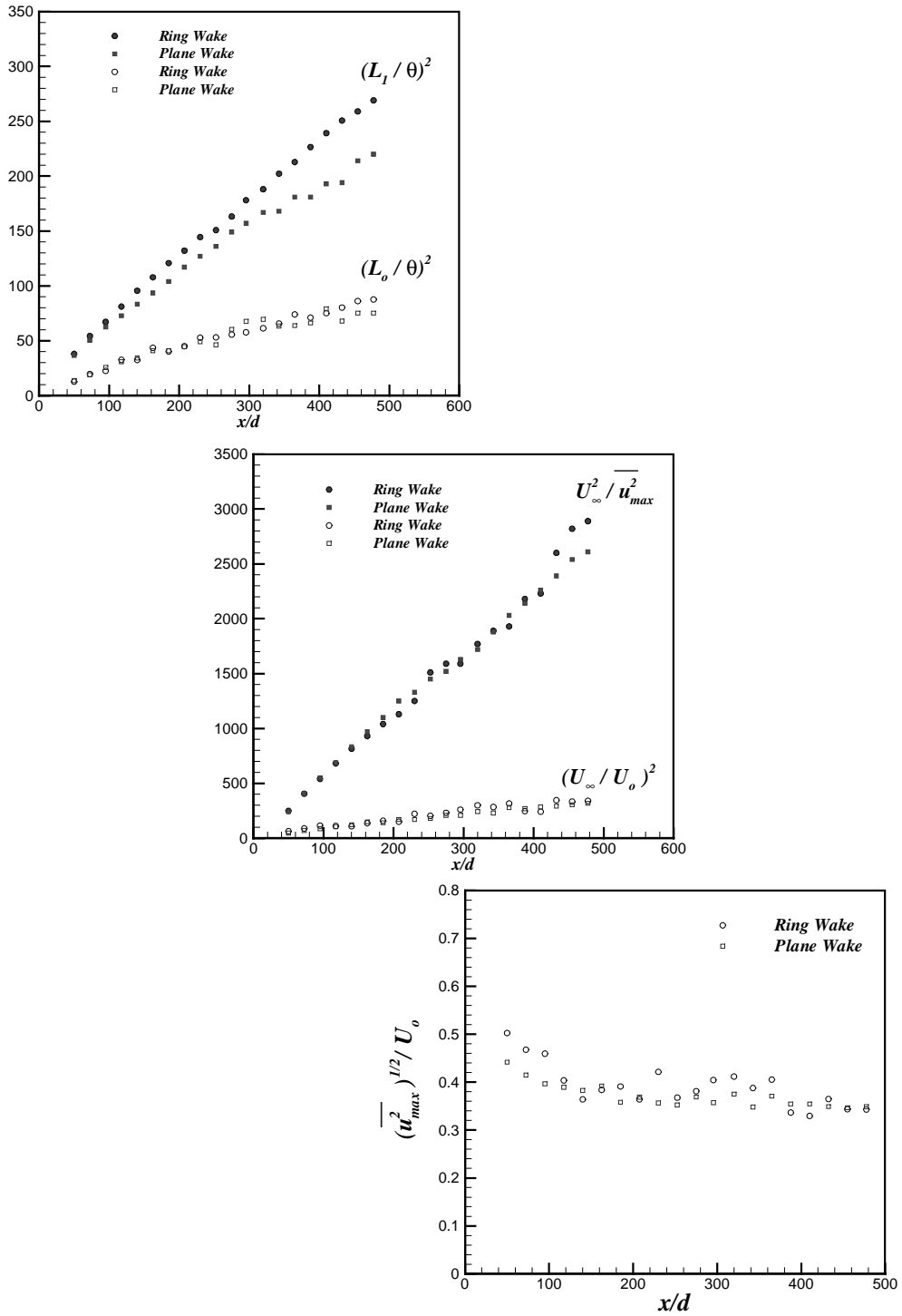


Figure 3.22 The downstream variation of (a) length scales (b) velocity scales and (c) $(g_{11,max})^{1/2}$ function