

Figure 3.47 Turbulent energy budget. --- pressure diffusion + dissipation; — turbulent diffusion; - · - production from shear stress uv ; ··· convection due to mean U ; for the plane wake at $x/d = 50 - 117.5$. Values normalized by L_o/U_o^3

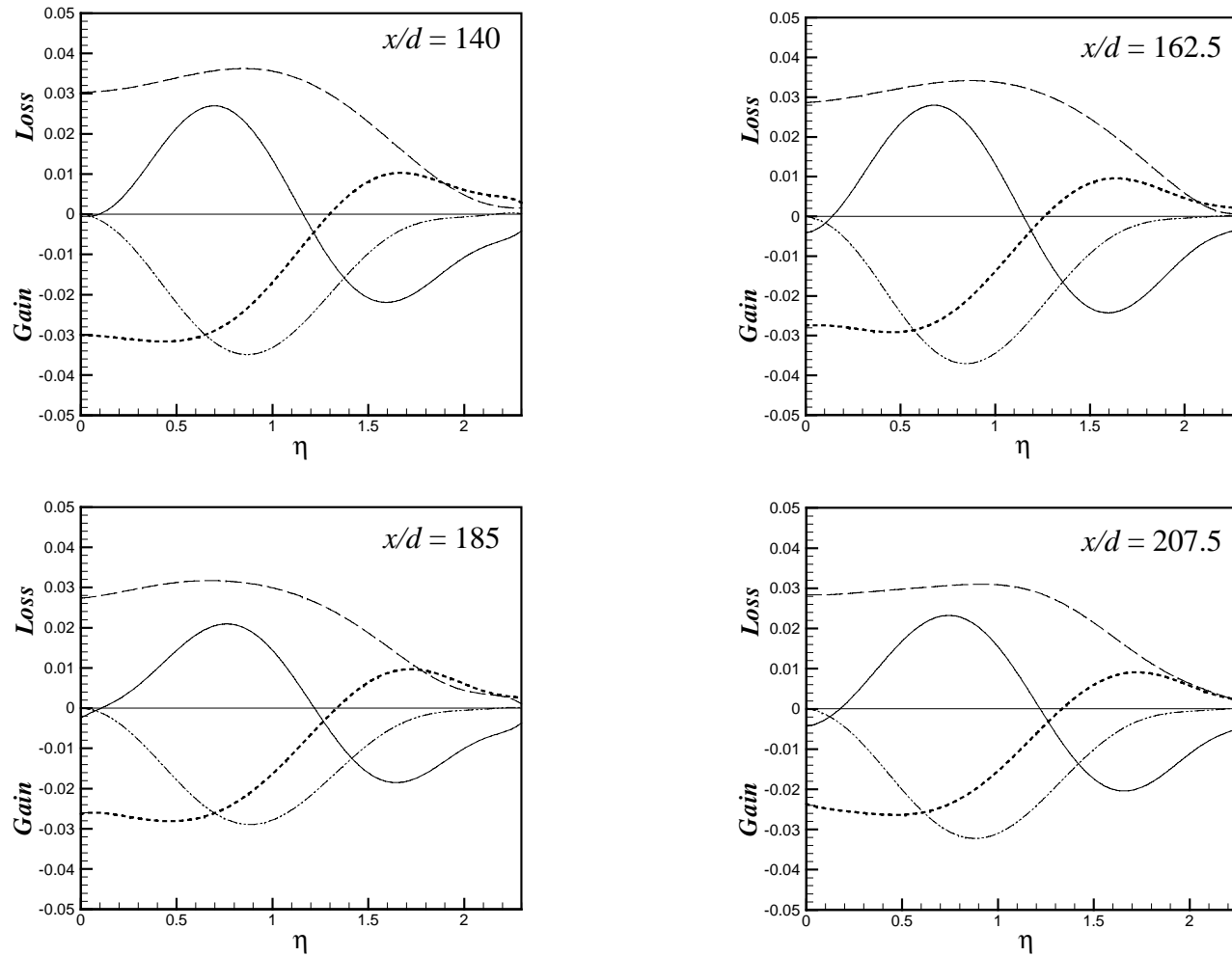


Figure 3.48 Turbulent energy budget. --- pressure diffusion + dissipation; ——— turbulent diffusion; — · — production from shear stress uv ; ····· convection due to mean U ; for the plane wake at $x/d = 140 - 207.5$. Values normalized by L_o/U_o^3

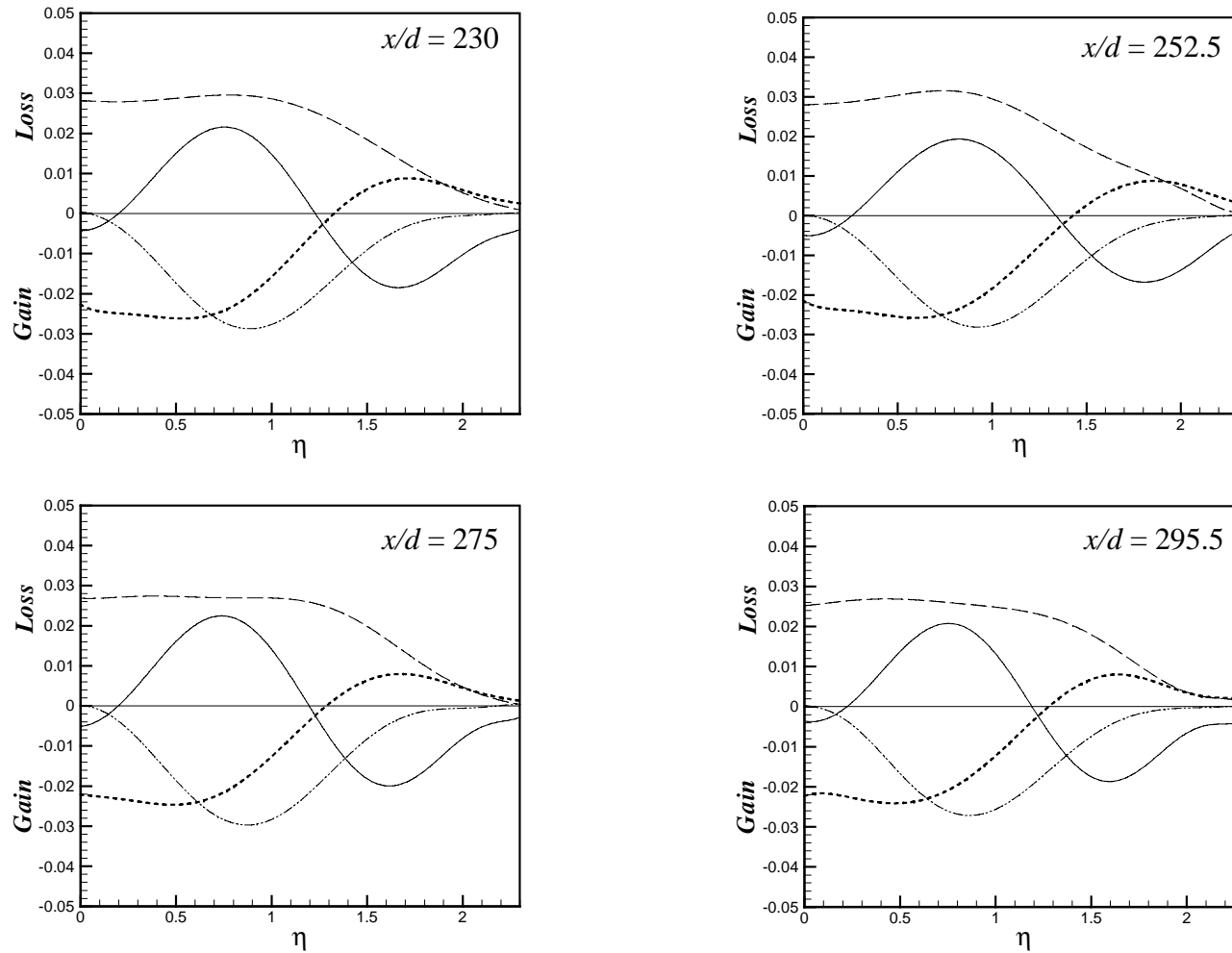


Figure 3.49 Turbulent energy budget. --- pressure diffusion + dissipation; ——— turbulent diffusion; - · - · - production from shear stress uv ; ····· convection due to mean U ; for the plane wake at $x/d = 230 - 295.5$. Values normalized by L_o / U_o^3

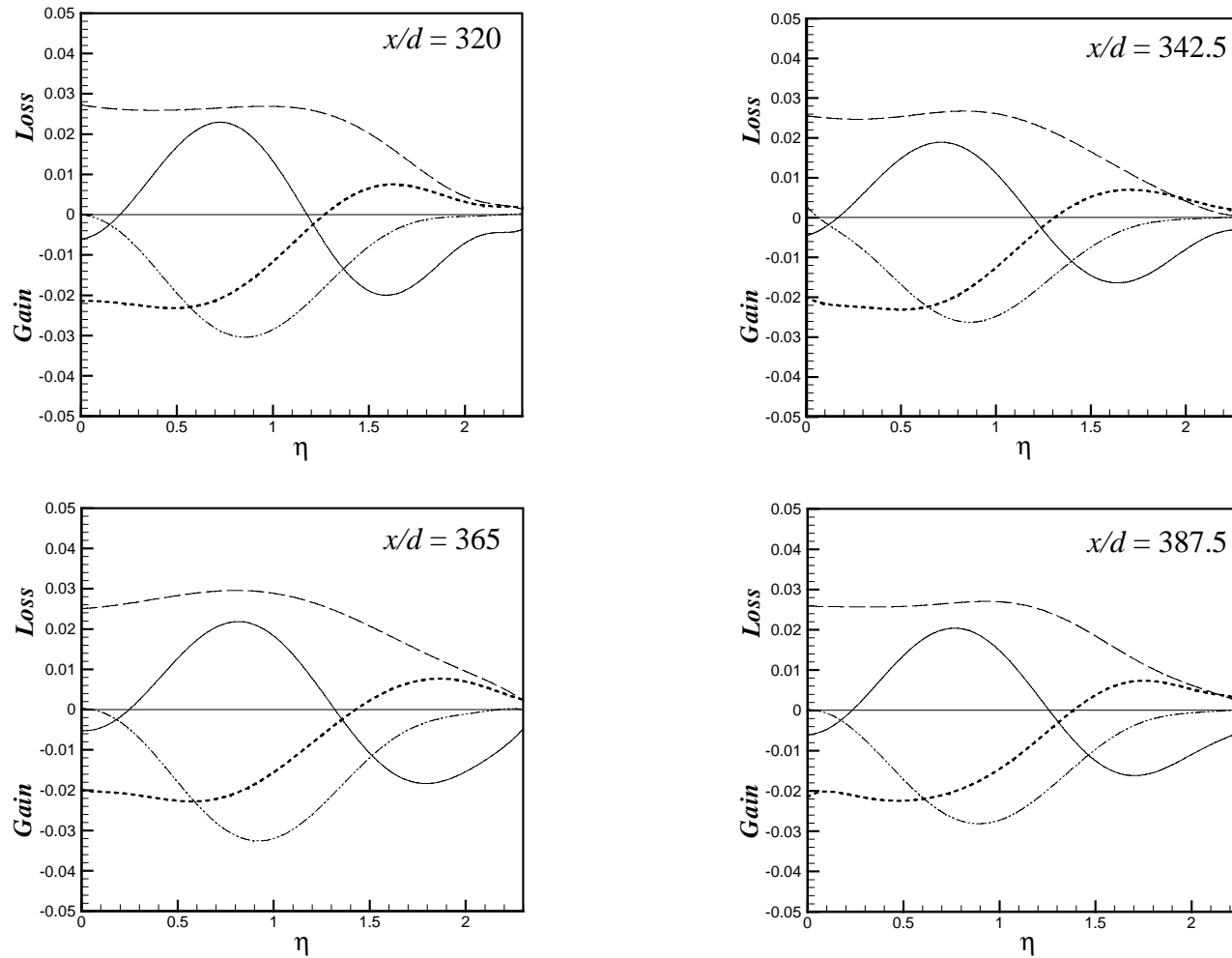


Figure 3.50 Turbulent energy budget. --- pressure diffusion + dissipation; — turbulent diffusion; - · - · production from shear stress uv ; ----- convection due to mean U ; for the plane wake at $x/d = 320 - 387.5$. Values normalized by L_o / U_o^3

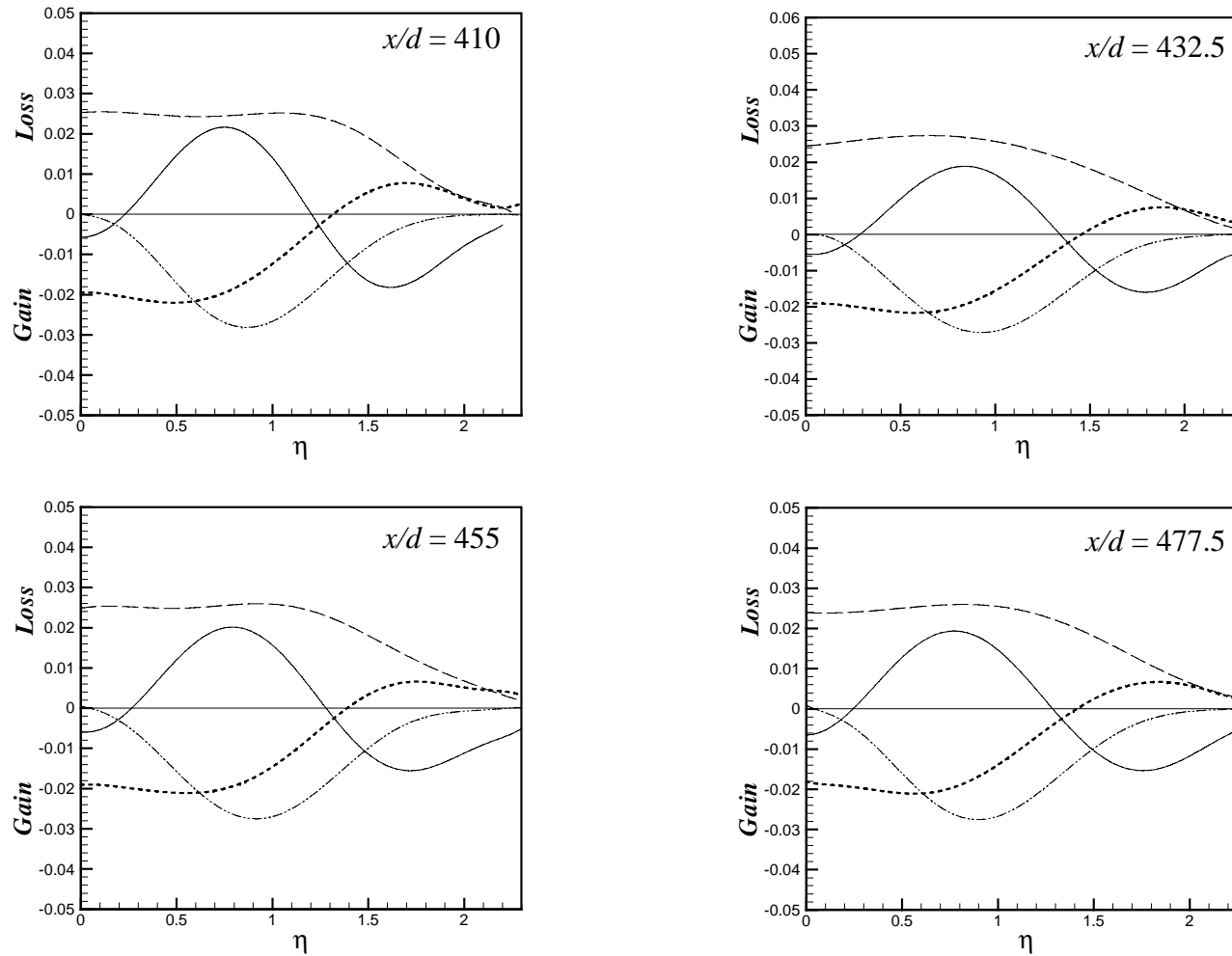


Figure 3.51 Turbulent energy budget. --- pressure diffusion + dissipation; — turbulent diffusion; - · - production from shear stress uv ; ···· convection due to mean U ; for the plane wake at $x/d = 410 - 477.5$. Values normalized by L_o / U_o^3

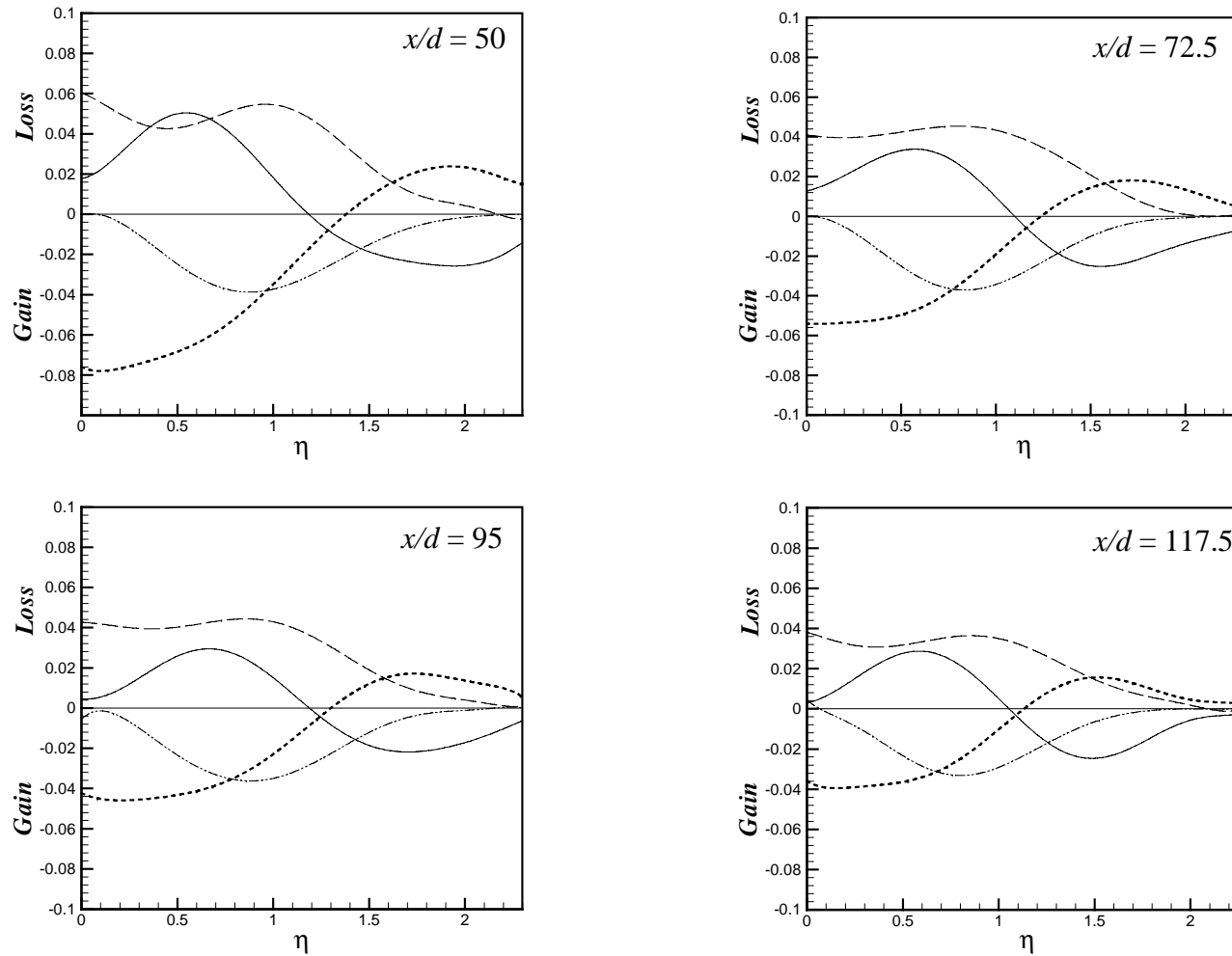


Figure 3.52 Turbulent energy budget. --- pressure diffusion + dissipation; — turbulent diffusion; - · - production from shear stress uv ; convection due to mean U ; for the ring wake at $x/d = 50 - 117.5$. Values normalized by L_o/U_o^3

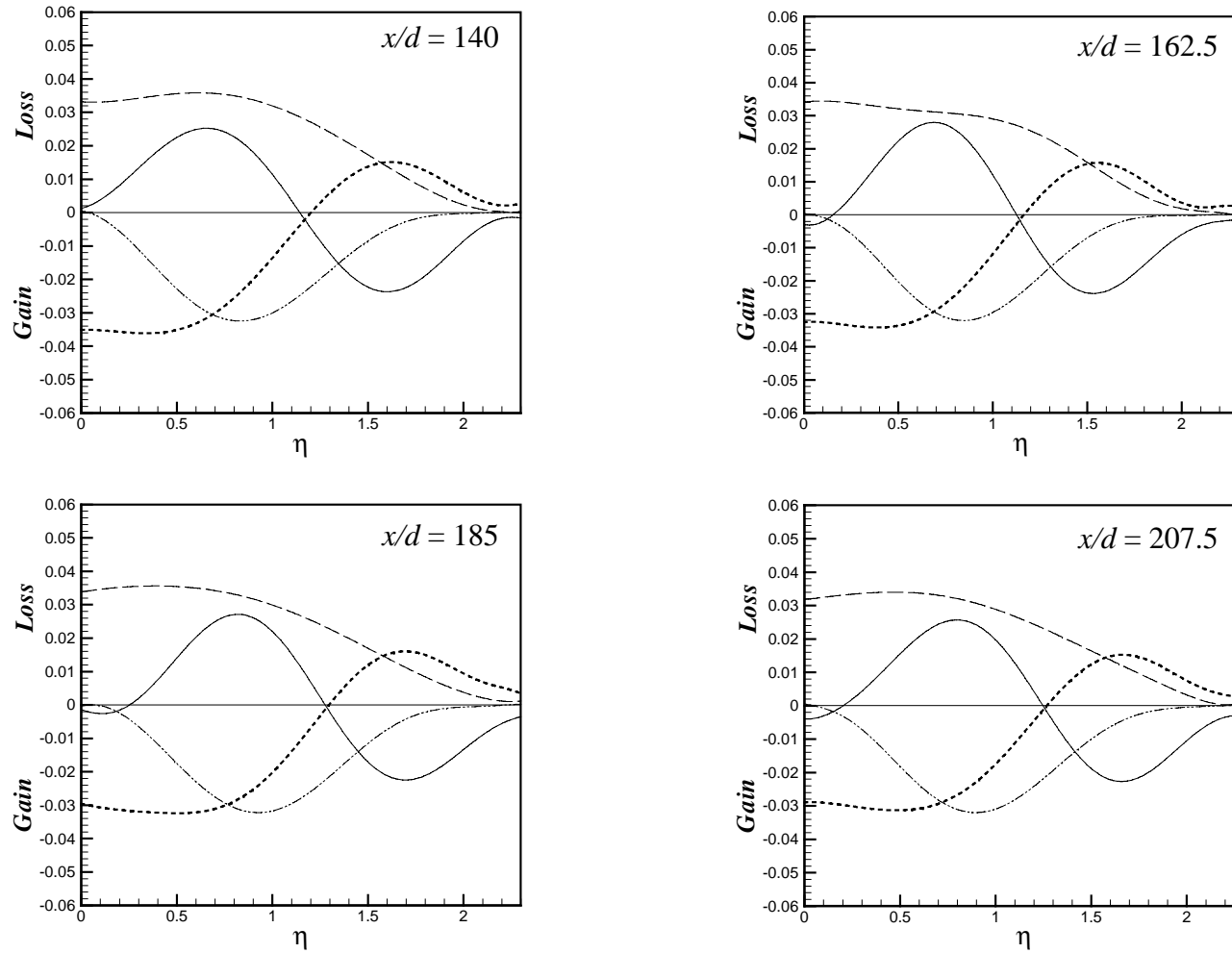


Figure 3.53 Turbulent energy budget. --- pressure diffusion + dissipation; ——— turbulent diffusion; - · - · - production from shear stress uv ; · · · · · convection due to mean U ; for the ring wake at $x/d = 140 - 207.5$. Values normalized by L_o/U_o^3

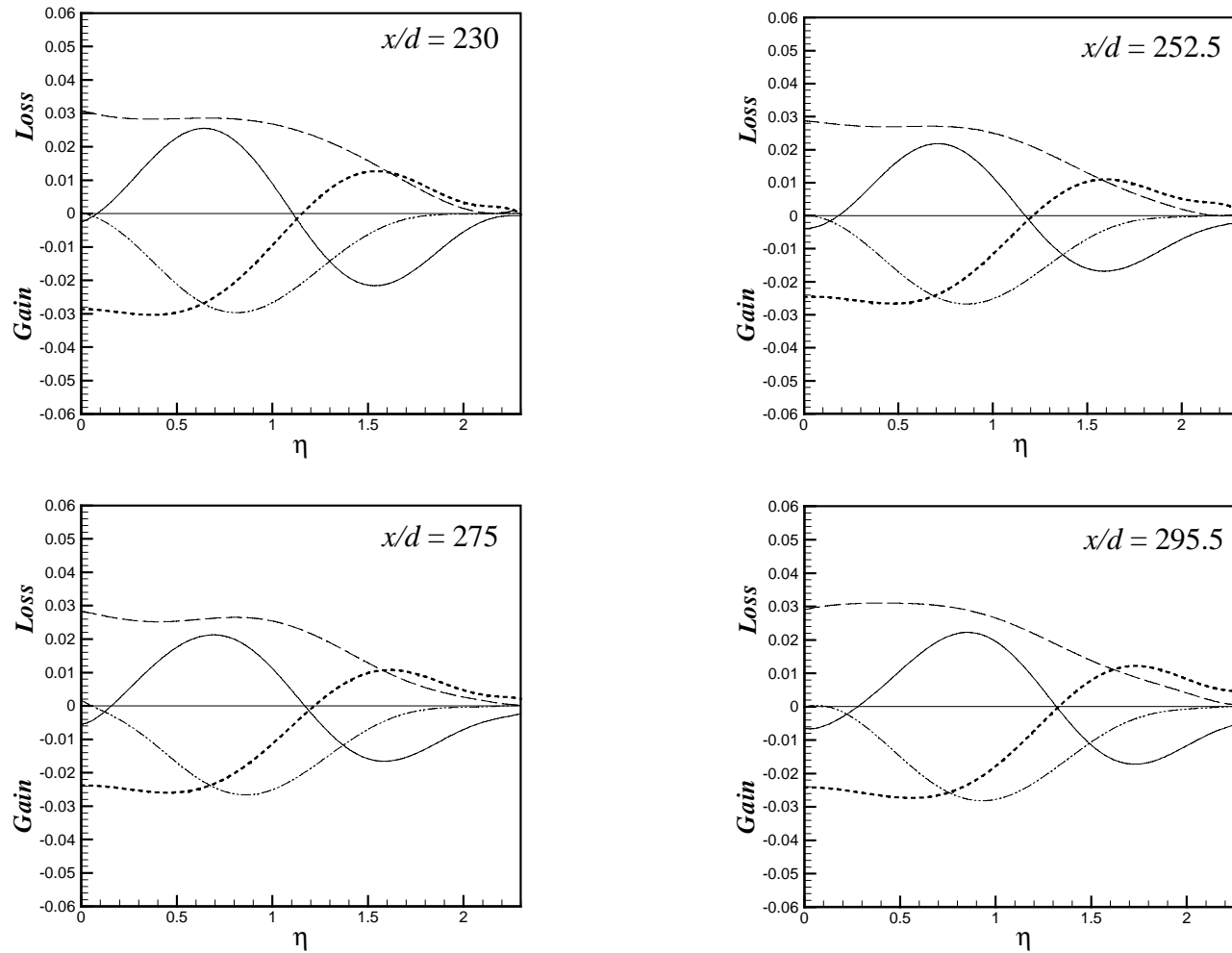


Figure 3.54 Turbulent energy budget. --- pressure diffusion + dissipation; — turbulent diffusion; - · - production from shear stress uv ; ····· convection due to mean U ; for the ring wake at $x/d = 320 - 295.5$. Values normalized by L_o/U_o^3

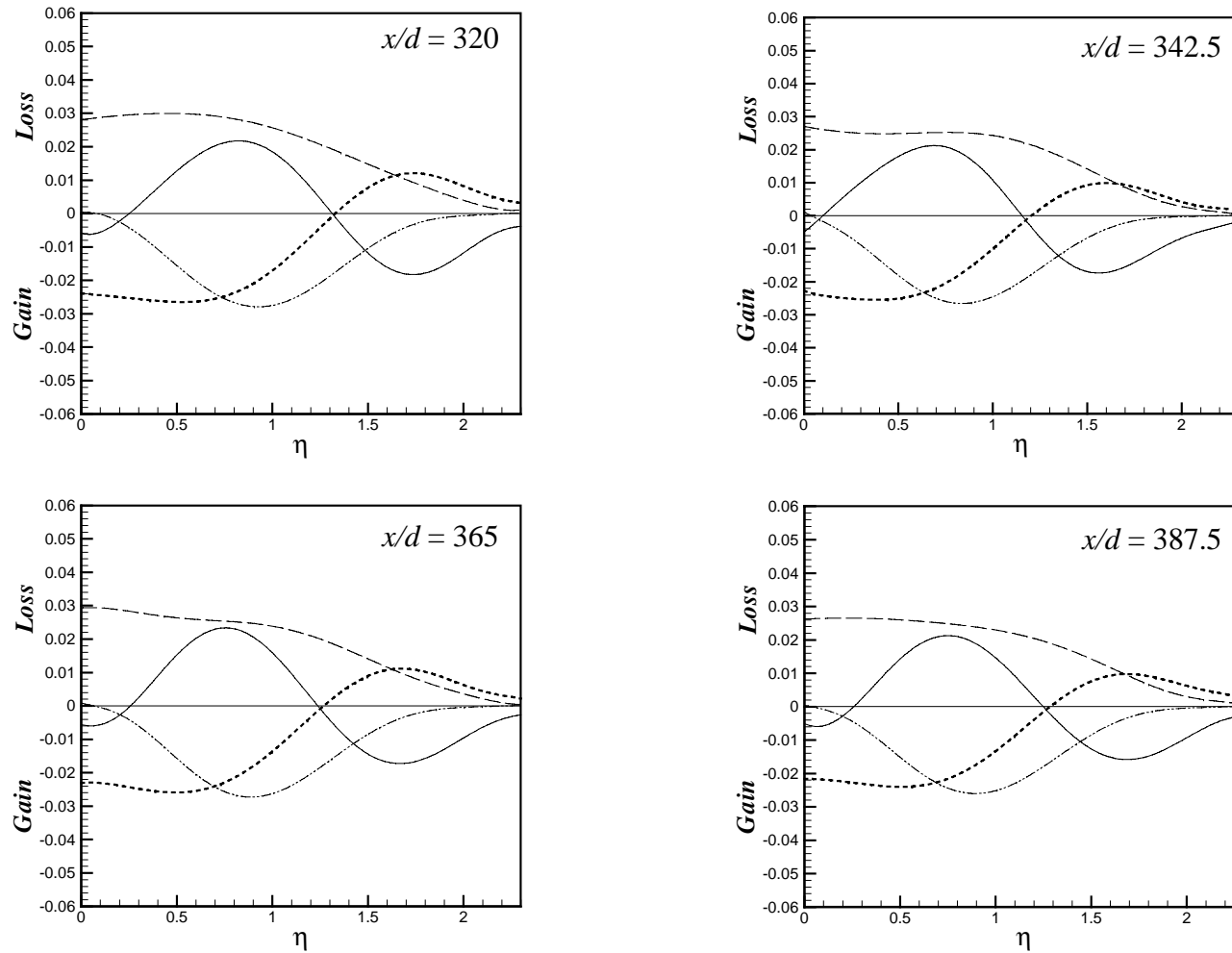


Figure 3.55 Turbulent energy budget. --- pressure diffusion + dissipation; — turbulent diffusion; - · - production from shear stress uv ; convection due to mean U ; for the ring wake at $x/d = 320 - 387.5$. Values normalized by L_o/U_o^3

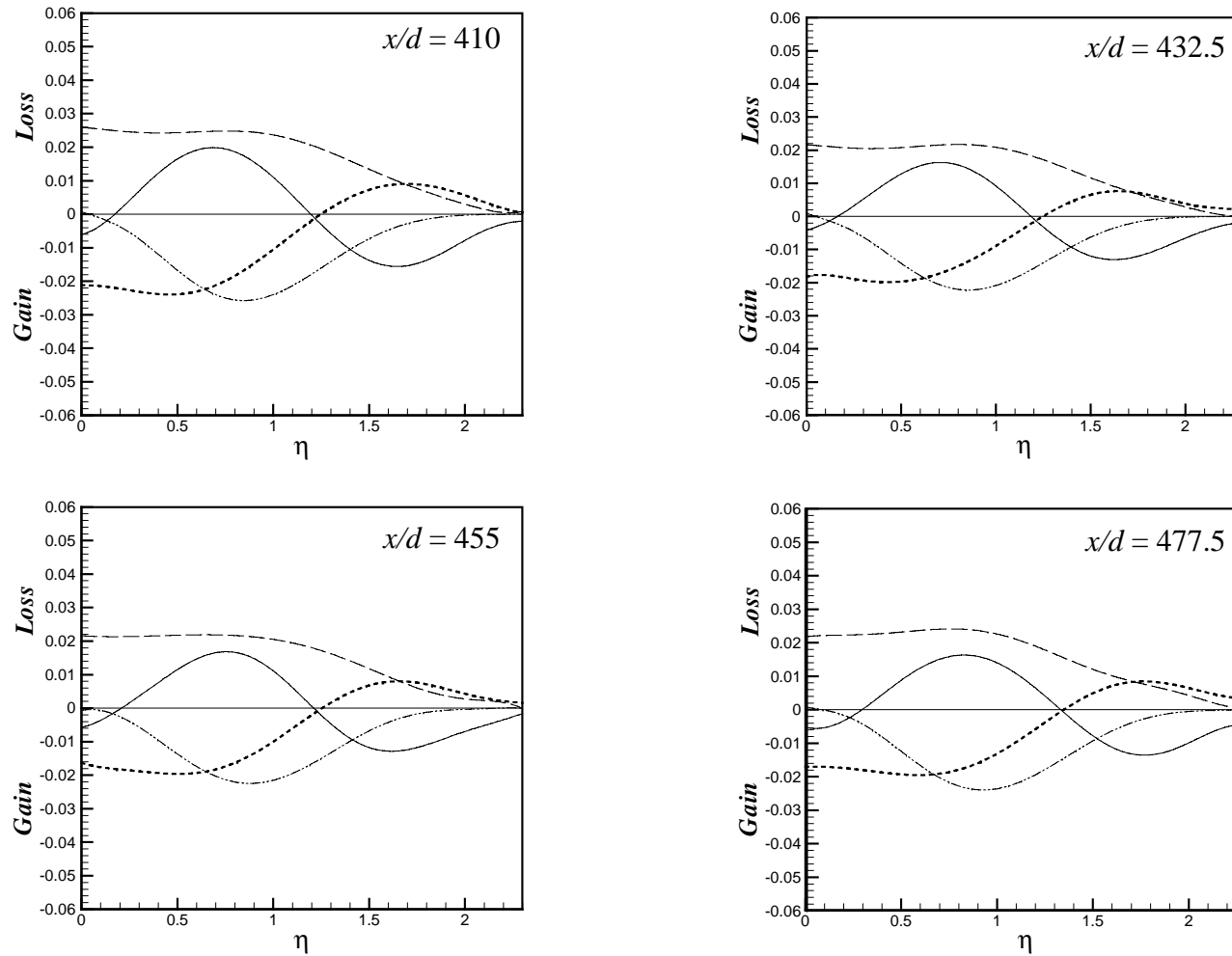


Figure 3.56 Turbulent energy budget. --- pressure diffusion + dissipation; ——— turbulent diffusion; — · — production from shear stress uv ; ····· convection due to mean U ; for the ring wake at $x/d = 410 - 477.5$. Values normalized by L_o/U_o^3

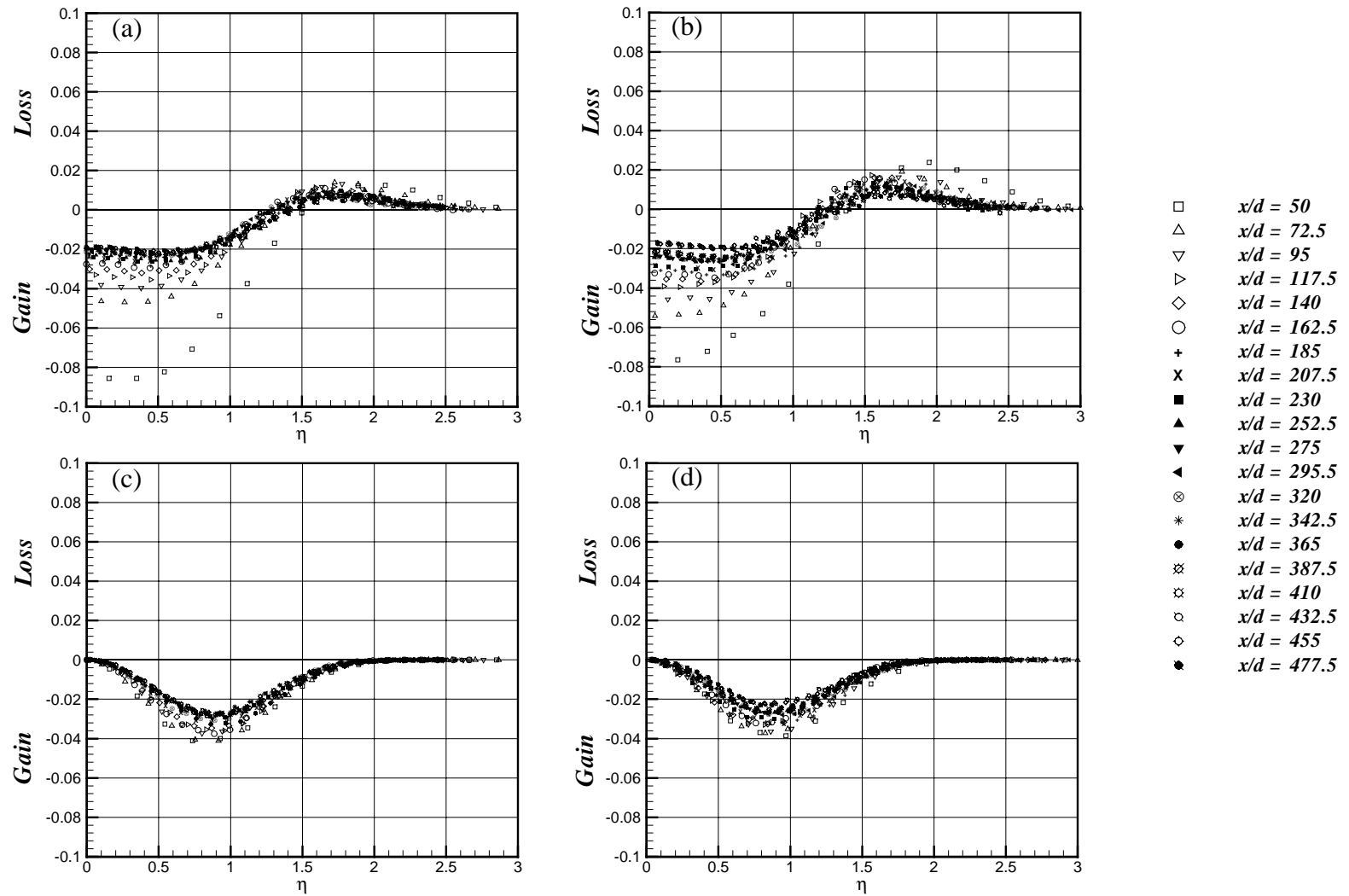


Figure 3.57 Turbulent kinetic energy balance: (a) & (b) convection term for plane and ring wake respectively, (c) & (d) production term for plane and ring wake respectively,

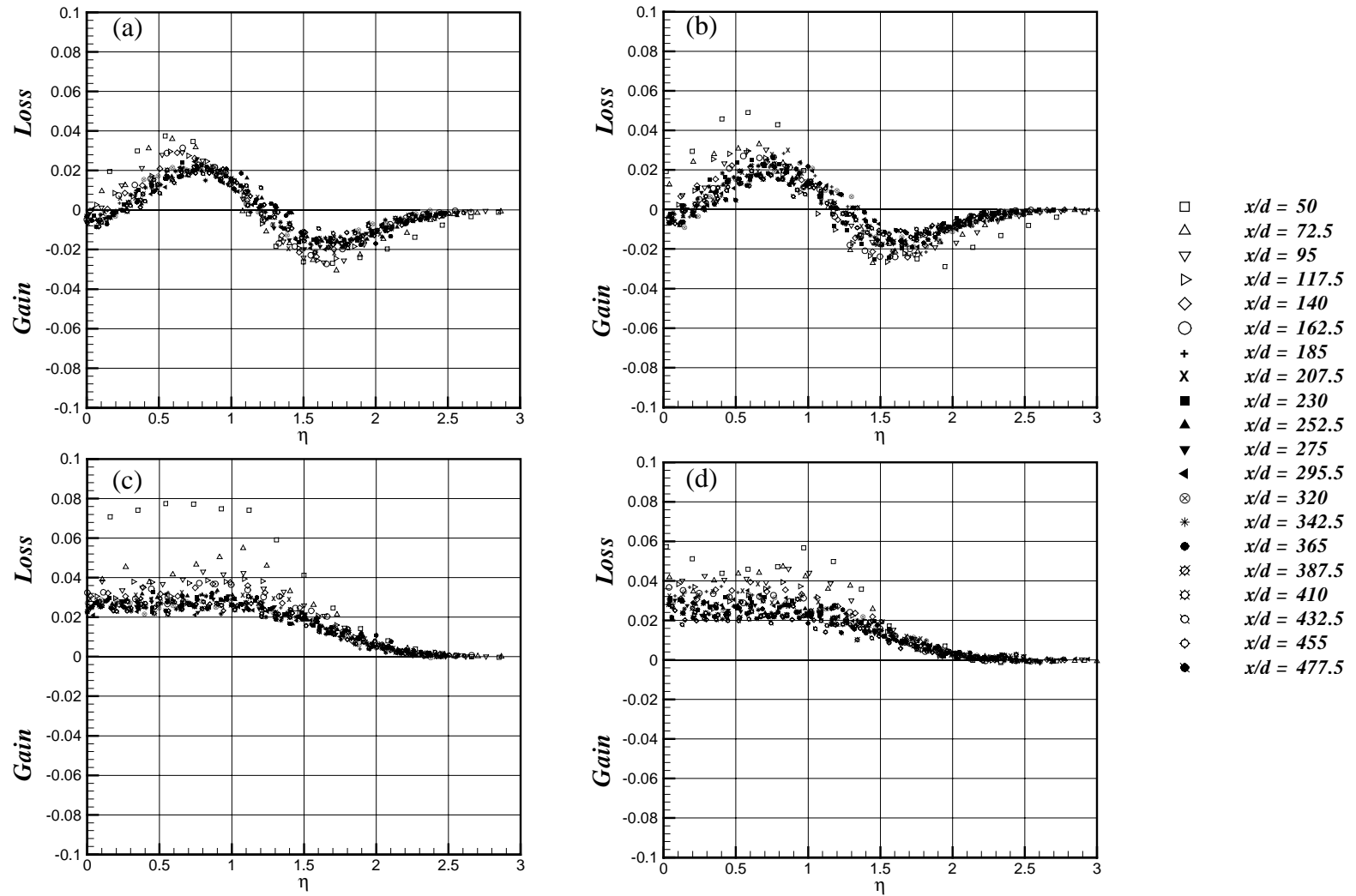


Figure 3.58 Turbulent kinetic energy balance: (a) & (b) turbulent diffusion term for plane and ring wake respectively, (c) & (d) dissipation term for plane and ring wake respectively