## 薄膜方位對掃流超過濾之影響

In this study, the flux behavior in a flat-membrane cross-flowultrafiltration system was investigated. The tested aqueous solutions in the experiments were Dextran T500. The operating parameters included liquid velocity, gas velocity and inclination angles of themembrane. The gas-liquid two-phase ultrafiltration system was also investigated. Increasing the cross-flow velocity will enhance the permeate flux and decrease the time required for reaching steadystate. Under low liquid flow rates, the filtrate resistance is maximum  $0^{\circ}$  inclination and get minimum at  $180^{\circ}$  inclination. The effect of inclination on the flux is insignificant when operating at the highliquid flow rate. Under high liquid flow rates, the introduction of gas will further enhance the permeate flux when the membrane is at  $180^{\circ}$  inclination.