List of Tables

Chapter 3
Table 3.1 Support material properties.
Table 3.2 Rejection and bubble point analysis of membranes prepared while varying PAN concentration in the dope solution (ZnCl₂ as an additive and H1006 as the support).
Table 3.3 Variation in membrane properties prepared using different additives and PAN₁₅ concentration in the dope solution.
Table 3.4 Variation in membrane properties prepared using different additives and PAN₁₃ concentration in the dope solution (support used: 3265).
Table 3.5 Change in FT-IR frequencies of additives after complexation with solvent.
Table 3.6 Analysis of spiral wound module.
Table 3.7 Properties of membranes casted on various supports.
Table 3.8 Membrane properties determined by pore size distribution and compaction analysis.

Chapter 4
Table 4.1 Advantages and disadvantages of methods used for As removal.
Table 4.2 Change in water flux of PAN based membranes treated with 15% aqueous EA and TEA in comparison to untreated membrane and their rejection properties.
Table 4.3 Rejection performance of membranes treated with 1N NaOH and 1N KOH, followed by 0.1N HCl at 30 °C by dead end mode.
Table 4.4 Rejection of membranes treated with 1N NaOH by cross flow mode.
Table 4.5 Contact angle of surface modified membranes.
Table 4.6 EDAX analysis of PAN membrane surface.
Table 4.7 Spiral wound module analysis.
Table 4.8 Arsenic rejection analysis of surface modified spiral wound module.
Chapter 5

Table 5.1 Physical properties of porous supports.
Table 5.2 Water flux, rejection and pore size analysis by solute rejection method of membranes prepared using different porous supports.
Table 5.3 Stability of membrane M-6 towards organic solvents.
Table 5.4 Hexane stability of membranes prepared using different porous supports.
Table 5.5 Change in water flux after treatment of concentrated acid and base.
Table 5.6 Effect of drying on water flux.