Recent Applications of Fractal Geometry to Membrane Technology

Michel LEFEBVRE

[a] Steripak Pty Ltd

Michel Lefebvre, michel@steripak.net.au +61400458000

Abstract

Fractal Geometry has been applied previously to change the surface of membranes to improve flux under concentration polarisation, to manufacture fractal polymers as additives to various plastics to modify their properties or to act as a delivery system

Recently a new class of fractal polymer has been developed to change performance of cleaning agents and antifouling products for improvement and better recovery of original membrane characteristics

After a short presentation of the basics of fractal geometry when applied to chemistry results of practical applications to membrane systems will be presented for discussion.

Keywords: Membrane Cleaning, Anti-fouling, Fractal Polymers