

Abstract Submitted
for the DFD11 Meeting of
The American Physical Society

Mathematical modelling of membrane separation FRANK VINTHER, Technical University of Denmark — Membrane separation is commonly used in chemistry and chemical engineering, where the separation of one or several species of molecules is of interest. This presentation will presents mathematical modelling of the dynamic interplay between the transport equations through the membrane and the transport equations within the bulk solution. Thus, resulting in a system of PDE's with time varying boundary conditions. The model is used for predicting optimal parameters for separation processes.

Frank Vinther
Technical University of Denmark

Date submitted: 05 Aug 2011

Electronic form version 1.4