

ELEMENTS OF MEMBRANE SEPARATION PROCESSES

by David Hasson

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The main purpose of the present work is to serve as an introductory textbook for a one semester course on membrane separations. The material presented in the book is the outcome of continual development over the years of a membrane course taught by the author at the Chemical Engineering Department of the Technion–Israel Institute of Technology.

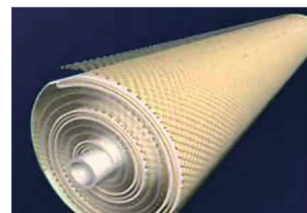
The first part of the book deals with basic aspects of the membrane field: Overview of membrane processes; Manufacture and characterization of membranes; Equilibria and transport models; Donnan processes.

The second part of the book is dedicated to technological aspects of the major membrane separation processes: Reverse osmosis; Ultrafiltration; Gas separations; Electrodialysis; Pervaporation

Each chapter is followed by Homework problems which are accompanied by a Workbook with the final answers.

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Professor Hasson joined the Chemical Engineering Department of the Technion at its infancy shortly after its foundation and contributed much to its academic development. He pioneered teaching and research activities at Technion in the fields of desalination and membrane technologies. He has published 150 papers related to membrane transport properties, modelling of Donnan dialysis, electrochemical removal of scale-forming ions, remineralization of desalinated water and enhanced water recovery techniques. He is the recipient of the Michael Landau Prize for 2011 in the category of Water Desalination and of the 2015 Award of the Israel Institute of Chemical Engineers for Lifetime Achievements.

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