

**RESEARCH INSTITUTE ON MEMBRANES AND MODELLING OF CHEMICAL REACTORS**  
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**RELEVANT BOOKS**  
for  
**MEMBRANOLOGISTS**

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## **PREFACE**

The book-list has been organized under five main headings:

1. Membrane Science and Technology - General Works
2. Membrane Science and Technology - Specific Processes
3. Related Topics
4. Proceedings (2001 - 1990)
5. Most Recent Publications (2001 - 1999)

The first two sections have been compiled from a computer search of Chemical Abstracts, increased by a hand search of the subject index of the U.S. Library of Congress Union Catalogue. Works dealing primarily with biological membranes are not included. Government research reports such as U.S. Office of Saline Water R&D reports are not listed individually, since the majority of these works is in essence single research papers. These exclusions apart, it is intended that these sections should constitute a fairly comprehensive listing of books dealing specifically with membrane science and technology.

On the other hand, the third section is a necessarily selected bibliography of books on topics related to membrane science. The intention has been to include as many as possible of those books that, while not dealing specifically or primarily with membranes, are frequently referred to by students and researchers of membrane science. Much of this section has been compiled in *ad hoc* method. However, in the hope of widening the net somewhat, references to such books have been selected from a representative sample of the membrane science literature.

The fourth section collects the Proceedings of most of the Conferences, Workshops and Symposiums dedicated to membrane science and technology in the last 10 years, while the last section gathers all the books printed between 2001 and 1999 and already listed in all the sections.

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## 1. MEMBRANE SCIENCE AND TECHNOLOGY - GENERAL WORKS

### 1.1 HANDBOOKS

- **Application Handbook of Membrane Separation Technology**, Beijing : Chemical Industry Press, 2001 (in chinese)
- **Handbook in Bipolar Membrane Technology**, Kemperman, A.J.B. (Ed), Enschede : Twente University Press, 2000
- **Handbook of Dialysis**, Daugirdas, J.T., Ing, T.S., Blake, P.G., 3<sup>rd</sup> Ed., Boston : Little Brown & Co., 2000
- **Polymer Handbook**, 4<sup>th</sup> ed., Brandrup, J., Immergut, E.H., Grulke, E.A. (Eds); Abe, A., Bloch, D.R. (Ass. Eds), New York ; Chichester : John Wiley & Sons, c1999
- **Water Quality and Treatment: A Handbook of Community Water Supplies. American WaterWorks Association**, 5<sup>th</sup> ed., Letterman, R.D. (Technical Ed), New York : McGraw-Hill, c1999
- **Filters and Filtration Handbook**, 4<sup>th</sup> ed., Dickenson, T.C., Oxford : Elsevier Advanced Technology, 1997
- **Handbook of Industrial Membranes**, Scott, K., Oxford : Elsevier Advanced Technology, c1995
- **Membrane Filtration Handbook: A Guide on Membrane Filtration Technology for the Food Processing Industry**, Merlo, C.A., Rose, W.W., Ewing, N.L., Dublin, CA: National Food Processors Association, 1993
- **Membrane Handbook**, Ho, W.S.W., Sirkar, K.K., New York : Van Nostrand Reinhold, c1992
- **Handbook of Membrane Treatment Techniques, Vol. 1: Fundamentals and Products**, Shimizu, H., Arai, K., Nakagawa, T., Nakabayashi, N., Nishimura, M., Tokyo : Fuji Technosystem Co., Ltd., 1991
- **Biochemical Engineering and Biotechnology Handbook**, 2<sup>nd</sup> ed., Atkinson, B., Mavituna, F. (Eds), Houndmills : Macmillan, 1990
- **Handbook of Applications of Membrane Reactors**, Kokugan, T., Matsumoto, K. (Eds), Tokyo : Science Forum Inc., 1990
- **Handbook of Industrial Membrane Technology**, Porter, M.C. (Ed), Park Ridge : Noyes Publications, c1990
- **Handbook of Separation Process Technology**, Rousseau, R.W., New York ; Chichester : John Wiley & Sons, c1987

### 1.2 GENERAL TEXTS

- **Bipolar Membrane Electrodialysis: Membrane Development and Transport Characteristics**, Wilhelm, F.G. Enschede : Twente University Press, 2001
- **Membrane Technology in the Chemical Industry**, Periera-Nunes, S., Peinemann, K.V., Weinheim ; Cambridge : Wiley-VCH, 2001
- **Fundamental of Membrane Separation Technology**, Wang, Z. (Ed), Beijing : Chemical Industry Press, 2000 (in chinese)
- **Integration of Membrane Processes into Bioconversions**, Belafi-Bako, K., Gubicza, L., Mulder, M. (Eds), New York : Plenum Pub Corp, 2000
- **Membrane-Mimetic Approach to Advanced Materials (Advances in Polymer Science, Vol 113)**, Fendler, J.H., Berlin ; New York : Springer Verlag, 2000
- **Membrane Technology & Markets in Western Europe**, 2<sup>nd</sup> ed., London : IAL Consultants, 2000
- **Membrane Technology and Applications**, Baker, R.W., New York : McGraw-Hill, 2000

- ***Biocatalytic Membrane Reactors: Application in Biotechnology and the Pharmaceutical Industry***, Drioli, E., Giorno, L., London ; Philadelphia : Taylor & Francis, 1999
- ***Filtration: Equipment Selection, Modelling and Process Simulation***, Wakeman, R.J., Tarleton, E.S., Oxford : Elsevier Advanced Technology, 1999
- ***Membrane Permeability, 100 Years since Ernest Overton (Current Topics in Membranes, Vol 48)***, Deamer, D.W., Kleinzeller, A., Fambrough, D.M. (Eds), San Diego : Academic Press, Inc., 1999
- ***Membrane Separations Technology: Principles and Applications (Membrane Science and Technology, Vol 2)***, 2<sup>nd</sup> ed., Noble, R.D., Stern, A. (Eds), Amsterdam : Elsevier, 1999
- ***Surface Chemistry and Electrochemistry of Membranes (Surfactant Science Series, Volume 79)***, Smith Sørensen, T., New York : Marcel Dekker, 1999
- ***Membrane Processes: A Technology Guide***, Cardew, P. T., Level, M. S. (Eds), Cambridge : The Royal Society of Chemistry, c1998
- ***Les Séparations par Membrane dans les Procédés de l'Industrie Alimentaire - Technique & Documentation***, Daufin, G., Rene, F., Aimar, P. (coord.), Paris : Lavoisier Tec & Doc., c1998 (in french)
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- ***Structure and Properties of Glassy Polymers (ACS symposium series, N. 710)***, Tant, M.R., Hill, A.J. (Eds), Washington, D.C. : American Chemical Society, 1998
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- ***Basic Principles of Membrane Technology***, 2<sup>nd</sup> ed., Mulder, M., Dordrecht ; Boston : Kluwer Academic Publishers, 1996
- ***Biofunctional Membranes***, Butterfield, D.A. (Ed), New York : Plenum Pub Corp, 1996
- ***Fundamentals of Inorganic Membrane Science and Technology***, Burggraaf, A.J., Cot, L. (Eds), Amsterdam : Elsevier, 1996
- ***Industrial Membrane Separation Technology***, Scott, K.S., Hughes, R., London ; New York : Blackie Academic & Professional, c1996
- ***Inorganic Membranes for Separation and Reaction***, Hsieh, H.P., Amsterdam : Elsevier, 1996
- ***Microfiltration and Ultrafiltration***, Zeman, L. J., Zydney, A.L., New York : Marcel Dekker, 1996
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- ***Profile of the International Membrane Industry - Market prospects to 2000***, Oxford : Elsevier Advanced Technology, c1996
- ***Advances in the Applications of Membrane-Mimetic Chemistry***, Yen, T.F., Gilbert, R.D., Fendler, J.H., New York : Plenum Pub Corp, 1995
- ***High-Temperature Properties and Applications of Polymeric Materials (ACS Symposium, N. 603)***, Tant, M.R. (Ed), Connell, J.W., McManus, H.L.N., Washington, D.C. : American Chemical Society, 1995
- ***Le Membrane***, Alberti, G., Drioli, E., Roma : La Nuova Italia Scientifica, 1995
- ***Membrane & Separations Technology Industry Review***, Crull, A., (Ed); Grant, S., Norwalk, CT : Business Communications Co., c1995
- ***Nomenclature and Symbols in Membrane Science and Technology***, Koops, G.-H., Toulouse : European Membrane Society, 1995

- **Reverse Osmosis: A Practical Guide for Industrial Users**, Byrne, W., Littleton : Tall Oaks Publishing Inc., 1995
- **Desalination and Water Reuse: 1994 Desalination Directory**, Balaban, M. (Ed), Chieti : Balaban Desalination Publishers, c1994
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- **Membrane Processes in Separation and Purification, (NATO ASI Series, Series E, Applied Sciences, vol. 272)**, Crespo, J.G., Boddeker, K.W. (Eds), Dordrecht ; Boston : Kluwer Academic Publishers, c1994
- **Membrane Separation Technology and its Application**, Wang, X., Beijing : Science Press, 1994 (in chinese)
- **Membrane Technology: Applications to Industrial Wastewater Treatment (Environmental Science and Technology Library, vol. 1)**, Caetano, A., de Pinho, M.N., Drioli, E., Muntau, H., (Eds), Dordrecht; Boston : Kluwer Academic Publishers, 1994
- **Synthetic Membranes and Membrane Separation Processes**, Matsuura, T., Boca Raton : CRC Press, c1994
- **Techniques de Séparation par Membranes: Vocabulaire Français-Anglais-Allemand avec Index**, Bouroche, A., Le Bars, M., Paris : Institut National de la Recherche Agronomique, 1994
- **Effective Membrane Processes - New perspectives**, Patterson, R. (Ed), Bath : Mechanical Engineering Publications Ltd., 1993
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- **Membrane Processes (Symposium Papers of the Institution of Chemical Engineers, N. 4)**, Metcalfe, M.G. (Ed), Manchester : North Western Branch, c1980

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- **Membrane Transport Processes**, vol. 3, Stevens, C.F., New York : Raven Press, 1979
- **Hyperfiltration and Ultrafiltration in Plate and Frame Systems**, Madsen, R.F., Amsterdam : Elsevier, 1977
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- **Les Procédés de Séparation par Membranes: Electrodialyse, Osmose Inverse, Ultrafiltration, Utilisations Actuelles et Potentielles dans l'industrie Alimentaire en dehors de l'Industrie Laitière (Série synthèses bibliographiques. Centre de documentation internationale des industries utilisatrices de produits agricoles. no 9)**, P., Bimbenet J.J., Paris : Association pour la Promotion Industrie Agriculture, 1976 (in french)
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## 2. MEMBRANE SCIENCE AND TECHNOLOGY - SPECIFIC PROCESSES

### 2.1 AFFINITY MEMBRANES

- **Affinity Membranes: Their Chemistry and Performance in Adsorptive Separation Processes**, Klein, E., New York ; Chichester : John Wiley & Sons, c1991

### 2.2 CONTROLLED RELEASE

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