

U.S. DEPARTMENT OF THE INTERIOR

SALINE WATER CONVERSION R&D REPORTS

JUNE 1984

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| 654 | "Characterization of Cellulose Acetate Butyrate Membranes" (Universal Water Corp.) | PB 202524U |
| 655 | "Exchange Diffusion (Donnan Softening) As a Pretreatment to Desalination Processes" (Process Research) | PB 202744 |
| 656 | "Design and Furnishing Flash Enhancers for MSF Test Module" (Desalting Systems & Services, Inc.) | PB 202745 |
| 657 | "The Influence of Hydroxyl Ratio on the Performance of Reverse Osmosis Desalination Membranes" (Celanese Research Co.) | PB 202746 |
| 658 | "Freezing Process Studies" (Syracuse University Research Institute) | PB 202747 |
| 659 | "Development of Ultrathin Reverse Osmosis Membranes for Desalination" (North Star R&D Institute) | PB 202748 |
| 660 | "Synthesis and Evaluation of New Membrane Candidates for Application in Reverse Osmosis" (Peninsular Chemresearch, Inc.) | PB 202749 |
| 661 | "Advanced Reverse Osmosis-Membrane Module Systems" (Philco-Ford Corp., Aeronutronic Div.) | PB 202750 |
| 662 | "The Effect of Aerobic Marine Bacteria on the Corrosion of Metals in Sea Water" (Miami University) | PB 202751 |
| 663 | "Development of Modified Protein Films for Desalination by Reverse Osmosis" (Gillette Co. Research Institute Harris Research Lab.) | PB 202752 |
| 664 | "Performance Test of High Temperature Water Jet Compressor Operating in High Temperature Range" (American Hydrotherm Corp.) | PB 202753 |
| 665 | "Effects of Manufacturing Variables and the Development of Replaceable Membrane Elements for Brackish Water Tubular Reverse Osmosis Systems" (Envirogenics Co.) | PB 202754 |
| 666 | "Operation of the Multi-Effect Multi-State Flash Distillation Plant (Clair Engle), Fourth Report (Semi-Annual), San Diego, California" (Catalytic, Inc.) | PB 202755 |
| 667 | "A Study of the Permeability and Transport Properties of Reconstituted Cell Membranes" (American Cyanamid) | PB 202756 |
| 668 | "Operation of the Multi-Effect Multi-Stage Flash Distillation Plant (Clair Engle), Third Report (Annual), San Diego, Calif" (Catalytic, Inc.) | PB 202757 |

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| 669 | "Field Evaluation of a Radial-Flow Round Stack Electro-dialysis Unit" (AMF, Inc.) | PB 202758 |
| 670 | "Evaluation of Cellulose Acetate Membrane Properties as Related to System Configuration" (Universal Water) | PB 202759 |
| 671 | "Development of a Thin-Liquid Film Membrane Device for Reverse Osmosis" (Dorr-Oliver, Inc.) | PB 202760 |
| 672 | "Development of Flow Work Exchangers for Energy Recovery in Reverse Osmosis Plants" (Dynatech R/D) | PB 202761 |
| 673 | "Development of Storage Techniques for Reverse Osmosis Membranes" (Aerojet-General Corp.) | PB 202762 |
| 674 | "Test Evaluation of 2,500 GPD Seawater Reverse Osmosis Unit" (Naval Civil Engineering Lab.) | PB 202763 |
| 675 | "The Improvement of Spiral-Wound Reverse Osmosis Membrane Modules" (Gulf Energy & Env. Systems) | PB 202764 |
| 676 | "Reverse Osmosis Membrane Module (Spiral-Wound) Concept" (Gulf Energy & Env. Systems) | PB 202765 |
| 677 | "Development and Testing of Large Spiral-Wound Reverse Osmosis Modules" (Gulf General Atomic) | PB 202766 |
| 678 | "Intake Systems for Desalting Plants" (Dow Chemical) | PB 202767 |
| 679 | "Water Technology II" (C. W. Rice Div., NUS Corp.) | PB 202768 |
| 680 | "Development of Flow Work Exchangers for Energy Recovery in Reverse Osmosis Plants" (Dynatech R/D) | PB 202769 |
| 681 | "Conceptual Design Study on Electrodialysis Membrane Assembly Modular Unit Design" (Negev Institute for Arid Zone Research) | PB 202770 |
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| 683 | "Transport-Depletion Desalination Pilot Plant" (Pratt & Whitney Aircraft) | PB 202772 |
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| 690 | "Ionic Block Copolymers as Piezodialysis Membranes" (Shell Oil Co.) | PB 204607 |
| 691 | "The Feasibility of Siting an 8 MGD Vapor Compression Distillation Desalting Plant at Brownsville, Texas" (Fluor Corp.) | PB 204608 |
| 692 | "Annual Report (FY 1970) Webster Test Facility and Electrodialysis Test-Red Plant, Webster, South Dakota" (Mason-Rust) | PB 204609 |
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| 695 | "Seawater Tubular Reverse Osmosis Membranes" (Envirogenics Co.) | PB 204612 |
| 696 | "Water Permeation Across Ultrathin (Black) Lipid Membranes" (Michigan State University) | PB 204613 |
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| 700 | "New and Improved Cellulose Ester Membranes" (Envirogenics Co.) | PB 204616 |
| 701 | "In-Situ Regenerable Membranes for Reverse Osmosis" (Stanford Research Institute) | PB 204617 |
| 702 | "Improving Municipal Water Supplies in Colorado by Desalting" (URS Research Co.) | PB 204618 |

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| 704 | "New Selective Membranes" (Polytechnic Institute of Brooklyn) | PB 204620 |
| 705 | "Operation of the Multi-Stage Flash Distillation Plant, San Diego, California--Third Report (Semi-Annual)" (Catalytic Construction Co.) | PB 206510 |
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| 707 | "The Influence of Model Membrane Systems on the Structure of Water" (North American Rockwell) | PB 204622 |
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| 723 | "Inorganic Semipermeable Membranes" (Baylor Univ.) | PB 206446 |
| 724 | "Interfacial Properties of Water Solutions" (University of Washington) | PB 204632 |
| 725 | "Ultrathin Membranes for Reverse Osmosis Water Desalination" (North Star R&D Inst.) | PB 206447 |
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| 727 | "Measurements of Concentration Polarization Boundary Layer in Reverse Osmosis Desalinating Systems" (National Instrument Laboratories) | PB 206449 |
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| 730 | "In-Situ and Dynamically-Formed Reverse-Osmosis Membranes" (Envirogenics Co.) | PB 206450 |
| 731 | "Distillation Digest, Volumes 3 and 4" (Office of Saline Water) | PB 206451 |
| 732 | "U.S. Patent Abstracts and Indexes Covering the Technology of Distillation Processes for Saline Water Conversion" (Oak Ridge National Lab) | PB 206452 |
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| 735 | "Direct Contact Desulfation Laboratory & Pilot Plant Development Study for Softening of Sea Water" (Gideon P. Gelblum) | PB 206455 |

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| 740 | "Third Report on Horizontal-Tube Multiple-Effect Process Pilot Plant Tests" (Universal Desalting Corp.) | PB 208058 |
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| 764 | "Concentration of Brines by Spray Evaporation" (Colorado State University) | PB 212119 |
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| 766 | "Multicomponent Reverse Osmosis Membranes" (University of Akron) | PB 212120 |
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| 769 | "Analysis and Summary Report of Operation, Guantanamo Naval Base Desalination Facility" (Burns and Roe, Inc.) | PB 213871 |
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| 805 | "Annual Report (FY 1971) Webster Test Facility and Electrodialysis Test-Bed Plant, Webster, South Dakota" (Mason-Rust) | PB 215183 |
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| 853 | "Reactions and Transport Phenomena at Surfaces--Second Report" (Oak Ridge National Laboratory) | PB 221813 |
| 854 | "Analytical and Experimental Studies of Reverse Osmosis Systems" (Clarkson College of Tech.) | PB 222118 |
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| 7511 | "Low Pressure Brackish Water Reverse Osmosis Membrane Development" (UOP, Inc.) | PB 80-153539 |
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| 8518 | "Design and Specification Bid Package for a 2,500 GPD Eutectic Freezing Pilot Plant" (Fluor Engineers and Constructors, Inc.) | PB 295916 |
| 7707 | "Desalting Plans and Progress; An Evaluation of the State-of-the-Art and Future Research and Development Requirements (Second Edition) (Fluor Engineers and Constructors, Inc.) - Two Volumes." | PB 290785 - V.1 PB 290786 - V.2 |
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| | "Volume II, Reverse Osmosis Plants;" | PB 81-170581 |
| | "Volume III, Electrodialysis/ Electrodialysis Reversal Plants" (DSS Engineers, Inc.) | PB 81-170599 |
| 8529 | "Development of a Chlorine-Resistant Composite Membrane for Reverse Osmosis" (Envirogenics Systems Co.) | PB 80-115420 |

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| 3303 | "Research and Development on a Spiral-Wound Membrane System for Single-Stage Seawater Desalination, Final Report, January 1, 1975 through December 31, 1975" (UOP, San Diego, California) | PB 81-151938 |

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