

SOLUTE AND SOLVENT TRANSPORT THROUGH NANOPOROUS CERAMIC MEMBRANES

EPITHELIAL TRANSPORT TRANSPORT PROPERTIES OF POLYMERIC MEMBRANES MICROFILTRATION AND ULTRAFILTRATION MODELING OF MASS TRANSPORT PROCESSES IN BIOLOGICAL MEDIA HANDBOOK OF SOLVENTS, VOLUME 1 THERMODYNAMIC AND SOLVENT TRANSPORT STUDIES OF ELECTROLYTE-ORGANIC SOLVENT-WATER SYSTEMS POLYMER CHEMISTRY EDITOR'S PICK 2021 TRANSPORT ACROSS SINGLE BIOLOGICAL MEMBRANES MEMBRANE TRANSPORT DISSERTATION ABSTRACTS INTERNATIONAL TRANSPORT PHENOMENA IN MATERIALS PROCESSING AND MANUFACTURING, 1996 MODERN TRANSPORT JOURNAL OF THE AIR TRANSPORT DIVISION SWELLING AND TRANSPORT PROPERTIES OF HYDROPHOBIC POLYELECTROLYTE GELS INDIAN SCIENCE ABSTRACTS NOVEL POLYMER FILMS FOR SEPARATIONS IN NANOFILTRATION SOLUTE-SOLVENT INTERACTIONS RENAL PATHOPHYSIOLOGY TRANSPORT OF IONS AND WATER IN ANIMALS COMPARATIVE PHYSIOLOGY OF OSMOREGULATION IN ANIMALS N.K. WILLS SABU THOMAS ZEMAN SID M. BECKER GEORGE WYPYCH MATTHEW AIDAN COSTIGAN PELLEGRINO MUSTO L. BEAUG² D. C. TOSTESON A. S. LAVINE BRUCE A. FIRESTONE MATTHEW DEAN MILLER JOHANNES FRANCOIS COETZEE ALEXANDER LEAF JAMES ARTHUR RAMSAY G. M. O. MALOY

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BUILDING FROM GENERAL PRINCIPLES THE AUTHORS CLEARLY EXPLAIN THE FUNDAMENTAL ROLE OF EPITHELIA IN PLASMA ELECTROLYTE AND WATER BALANCE EMPHASIS IS PLACED ON EXPERIMENTAL APPROACHES AND METHODOLOGY A COMPREHENSIVE GLOSSARY OF TERMS IS INCLUDED

TRANSPORT PROPERTIES OF POLYMERIC MEMBRANES IS AN EDITED COLLECTION OF PAPERS THAT COVERS IN DEPTH MANY OF THE RECENT TECHNICAL RESEARCH ACCOMPLISHMENTS IN TRANSPORT CHARACTERISTICS THROUGH POLYMERS AND THEIR APPLICATIONS USING THE TRANSPORT THROUGH POLYMER MEMBRANES METHOD LEADS TO HIGH SEPARATION EFFICIENCY LOW RUNNING COSTS AND SIMPLE OPERATING PROCEDURES COMPARED TO CONVENTIONAL SEPARATION METHODS THIS BOOK PROVIDES GROUNDING IN FUNDAMENTALS AND APPLICATIONS TO GIVE YOU ALL THE INFORMATION YOU NEED ON USING THIS METHOD THIS BOOK DISCUSSES THE DIFFERENT TYPES OF POLYMER THEIR BLENDS COMPOSITES NANOCOMPOSITES AND THEIR APPLICATIONS IN THE FIELD OF LIQUID GAS AND VAPOR TRANSPORT SOME TOPICS OF NOTE INCLUDE MODERN TRENDS AND APPLICATIONS OF POLYMER NANOCOMPOSITES IN SOLVENT VAPOR AND GAS TRANSPORT FUNDAMENTALS AND MEASUREMENT TECHNIQUES FOR GAS AND VAPOR TRANSPORT IN POLYMERS AND TRANSPORT PROPERTIES OF HYDROGELS THIS HANDPICKED SELECTION OF TOPICS AND THE COMBINED EXPERTISE OF CONTRIBUTORS FROM GLOBAL INDUSTRY ACADEMIA GOVERNMENT AND PRIVATE RESEARCH ORGANIZATIONS MAKE THIS BOOK AN OUTSTANDING REFERENCE FOR ANYONE INVOLVED IN THE FIELD OF POLYMER MEMBRANES PRESENTS CURRENT TRENDS IN THE FIELD OF TRANSPORT OF LIQUID GAS AND VAPOR THROUGH VARIOUS POLYMERIC SYSTEMS FEATURES CASE STUDIES FOCUSED ON INDUSTRIAL APPLICATIONS OF MEMBRANE TECHNOLOGY ALONG WITH FUNDAMENTALS OF TRANSPORT AND MATERIALS HELPS READERS QUICKLY LOOK UP A PARTICULAR TECHNIQUE TO LEARN KEY POINTS CAPABILITIES AND DRAWBACKS

INTEGRATES KNOWLEDGE ON MICROFILTRATION AND ULTRIFICATION MEMBRANE CHEMISTRY AND CHARACTERIZATION METHODS WITH THE ENGINEERING AND ECONOMIC ASPECTS OF DEVICE

PERFORMANCE DEVICE AND MODULE DESIGN PROCESSES AND APPLICATIONS THE TEXT PROVIDES A DISCUSSION OF MEMBRANE FUNDAMENTALS AND AN ANALYTICAL FRAMEWORK FOR DESIGNING AND DEVELOPING NEW FILTRATIONS SYSTEMS FOR A BROAD RANGE OF TECHNOLOGICALLY IMPORTANT FUNCTIONS IT OFFERS INFORMATION ON MEMBRANE LIQUID PRECURSORS FRACTAL AND STOCHASTIC PORE SPACE ANALYSIS NOVEL AND ADVANCED MODULE DESIGNS AND ORIGINAL PROCESS DESIGN CALCULATIONS

MODELING OF MASS TRANSPORT PROCESSES IN BIOLOGICAL MEDIA FOCUSES ON APPLICATIONS OF MASS TRANSFER RELEVANT TO BIOMEDICAL PROCESSES AND TECHNOLOGY FIELDS THAT REQUIRE QUANTITATIVE MECHANISTIC DESCRIPTIONS OF THE DELIVERY OF MOLECULES AND DRUGS THIS BOOK FEATURES RECENT ADVANCES AND DEVELOPMENTS IN BIOMEDICAL THERAPIES WITH A FOCUS ON THE ASSOCIATED THEORETICAL AND MATHEMATICAL TECHNIQUES NECESSARY TO PREDICT MASS TRANSFER IN BIOLOGICAL SYSTEMS THE BOOK IS AUTHORED BY OVER 50 ESTABLISHED RESEARCHERS WHO ARE INTERNATIONALLY RECOGNIZED AS LEADERS IN THEIR FIELDS EACH CHAPTER CONTAINS A COMPREHENSIVE INTRODUCTORY SECTION FOR THOSE NEW TO THE FIELD FOLLOWED BY RECENT MODELING DEVELOPMENTS MOTIVATED BY EMPIRICAL EXPERIMENTAL OBSERVATION OFFERING A UNIQUE OPPORTUNITY FOR THE READER TO ACCESS RECENT DEVELOPMENTS FROM TECHNICAL THEORETICAL AND ENGINEERING PERSPECTIVES THIS BOOK IS IDEAL FOR GRADUATE AND POSTDOCTORAL RESEARCHERS IN ACADEMIA AS WELL AS EXPERIENCED RESEARCHERS IN BIOMEDICAL INDUSTRIES OFFERS UPDATED INFORMATION RELATED TO ADVANCED TECHNIQUES AND FUNDAMENTAL KNOWLEDGE PARTICULARLY ADVANCES IN COMPUTER BASED DIAGNOSTICS AND TREATMENT AND NUMERICAL SIMULATIONS PROVIDES A BRIDGE BETWEEN WELL ESTABLISHED THEORIES AND THE LATEST DEVELOPMENTS IN THE FIELD COVERAGE INCLUDES DIALYSIS INERT SOLUTE TRANSPORT INSULIN ELECTROKINETIC TRANSPORT CELLULAR MOLECULAR UPTAKE TRANSDERMAL DRUG DELIVERY AND RESPIRATORY THERAPIES

THIS 4TH EDITION OF HANDBOOK OF SOLVENTS VOLUME 1 CONTAINS THE MOST RECENT FINDINGS AND TRENDS IN SOLVENT APPLICATIONS IT IS A COMPREHENSIVE SURVEY OF THE SCIENCE OF SOLVENTS AND THEIR PROPERTIES COVERING ALL ASPECTS OF SOLVENT BEHAVIOR THAT ARE RELEVANT TO THEIR USE IN CHEMICAL AND RELATED INDUSTRIES INCLUDING AGRICULTURAL AND TECHNICAL PROCESSES INORGANIC SYNTHESIS AND MATERIALS CHEMISTRY AND MORE DIVIDED INTO TWO VOLUMES THIS FIRST VOLUME COVERS HIGH LEVEL INFORMATION ON THE PHYSICAL CHEMICAL PROPERTIES OF THE MOST RELEVANT SOLVENT SYSTEMS EACH CHAPTER IS FOCUSED ON A SPECIFIC ASPECT OF SOLVENT PROPERTIES THAT DETERMINE ITS SELECTION SUCH AS THE EFFECT ON PROPERTIES OF SOLUTES AND SOLUTIONS PROPERTIES OF DIFFERENT GROUPS OF SOLVENTS AND THE SUMMARY OF THEIR APPLICATIONS EFFECT ON HEALTH AND

THE ENVIRONMENT GIVEN IN TABULATED FORM ALSO COVERED IS SWELLING OF SOLIDS IN SOLVENTS SOLVENT DIFFUSION AND DRYING PROCESSES NATURE OF THE INTERACTION OF SOLVENT AND SOLUTE IN SOLUTIONS ACID BASE INTERACTIONS THE EFFECT OF SOLVENTS ON SPECTRAL AND OTHER ELECTRONIC PROPERTIES OF SOLUTIONS THE EFFECT OF SOLVENTS ON THE RHEOLOGY OF THE SOLUTION AGGREGATION OF SOLUTES PERMEABILITY MOLECULAR STRUCTURE CRYSTALLINITY CONFIGURATION CONFORMATION OF DISSOLVED HIGH MOLECULAR WEIGHT COMPOUNDS AND THE EFFECT OF SOLVENTS ON CHEMICAL REACTIONS AND REACTIVITY OF DISSOLVED SUBSTANCES WITH INSIGHT FROM SPECIALISTS IN A BROAD ARRAY OF DIFFERENT AREAS AND WRITTEN WITH AN INTERDISCIPLINARY AUDIENCE IN MIND THIS THOROUGHLY REVISED 4TH EDITION PROVIDES READERS WITH A COMPLETE OVERVIEW OF ALL THE ORGANIC SOLVENTS AVAILABLE FOR INDUSTRIAL APPLICATIONS TODAY THE BOOK CONTAINS NUMEROUS REFERENCES TO KEY SOURCES OF MORE DETAILED INFORMATION AND TOGETHER WITH HANDBOOK OF SOLVENTS VOLUME 2 USE HEALTH AND ENVIRONMENT DATABOOK OF GREEN SOLVENTS AND DATABOOK OF SOLVENTS REPRESENTS THE MOST COMPREHENSIVE AND UP TO DATE INFORMATION EVER PUBLISHED ON SOLVENTS PROVIDES KEY INSIGHTS THAT WILL HELP ENGINEERS AND SCIENTISTS SELECT THE BEST SOLVENT FOR THE JOB INCLUDES PRACTICAL INFORMATION AND IDEAS ON HOW TO IMPROVE EXISTING PROCESSES INVOLVING SOLVENTS PRESENTS THE LATEST ADVANCES IN SOLVENT TECHNOLOGY AND THEIR APPLICATIONS

THIS SECOND VOLUME IN THE SERIES ON MEMBRANE TRANSPORT IN BIOLOGY CONTAINS A GROUP OF ESSAYS ON TRANSPORT ACROSS SINGLE BIOLOGICAL MEMBRANES SEPARATING THE INSIDE AND OUTSIDE OF CELLS OR ORGANELLES WE HAVE NOT ATTEMPTED TO INCLUDE MATERIAL ON ALL TYPES OF PLASMA AND INTRACELLULAR MEMBRANES BUT RATHER HAVE EMPHASIZED STRUCTURES WHICH HAVE BEEN STUDIED RELATIVELY THOROUGHLY FOUR CHAPTERS DESCRIBE TRANSPORT OF DIFFERENT TYPES OF MOLECULES AND IONS ACROSS THE PLASMA MEMBRANES OF MAMMALIAN RED CELLS TWO ESSAYS CONCERN THE EXCITABLE MEMBRANES OF NERVE AND MUSCLE CELLS WHILE THE REMAINING FOUR CHAPTERS TREAT TRANSPORT ACROSS SEVERAL TYPES OF INTRACELLULAR MEMBRANES WATER MAKES UP MORE THAN TWO THIRDS OF THE MASS OF MOST LIVING CELLS THE TRANSPORT OF WATER BETWEEN THE INSIDE AND OUTSIDE OF CELLS AND ORGANELLES IS IMPORTANT FOR THE FUNCTION OF THESE STRUCTURES AS A RESULT OF INVESTIGATIONS IN MANY LABORATORIES OVER THE PAST FOUR DECADES OUR PICTURE OF THE WATER PERMEABILITY OF THE RED CELL MEMBRANES IS RATHER DETAILED WHEN COMPARED TO THE WATER PERMEABILITY OF OTHER BIOLOGICAL MEMBRANES IN CHAPTER 1 R I MACEY DESCRIBES THIS PICTURE AND ALSO CONSIDERS THE PERMEABILITY OF RED CELL MEMBRANES TO NON ELECTROLYTES INCLUDING METABOLIC SUBSTRATES SUCH AS SUGARS AMINO

ACIDS PURINES AND NUCLEOSIDES

MEMBRANE TRANSPORT A MAJOR VOLUME IN THE AMERICAN PHYSIOLOGICAL SOCIETY S PEOPLE AND IDEAS SERIES PRESENTS A VIVID PICTURE OF THE HISTORY OF MEMBRANE PHYSIOLOGY THE SIGNIFICANT CONCEPTUAL AND EXPERIMENTAL ADVANCES ARE GIVEN COMPREHENSIVE TREATMENT WHILE KEY INVESTIGATORS ARE DESCRIBED IN DETAIL THE BOOK WILL BE OF INTEREST TO THOSE WHO WORK IN THE FIELD OF MEMBRANE TRANSPORT INCLUDING MEMBRANE BIOLOGISTS CELL PHYSIOLOGISTS AND BIOLOGISTS AND HISTORIANS OF SCIENCE

PROCEEDINGS OF THE NOVEMBER 1996 SYMPOSIUM WHICH INCLUDED SESSIONS ON THERMAL TRANSPORT IN LASER MATERIALS INTERACTIONS LASER MATERIALS PROCESSING TRANSPORT PHENOMENA IN CRYSTAL GROWTH SOLIDIFICATION AND MELTING TRANSPORT PHENOMENA IN MANUFACTURING AND MATERIALS PROCESSING AND MULTIPHASE FLOW

THOROUGHLY REVISED THE THIRD EDITION OF THIS HIGHLY SUCCESSFUL INTRODUCTION TO THE PATHOPHYSIOLOGY OF THE KIDNEY INCLUDES NEW MATERIAL ON SUCH TOPICS AS ACID EXCRETION DIETARY PROTEIN AND RENAL FUNCTION THE ROLE OF THE MESANGIUM THE BIOCHEMICAL NATURE OF FIXED GLOMERULAR ANIONIC SITES OSMOLALITY OF CELLS CHLORIDE TRANSPORT IN RENAL TUBULES ION PUMPS INTRACELLULAR CALCIUM LEVELS AND THEIR REGULATION AND MAGNESIUM DEPLETION AND EXCESS

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