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this edited book covers recent advances of techniques methods and tools treating the problem of learning from data streams generated by evolving non stationary processes the goal is to discuss and overview the advanced techniques methods and tools that are dedicated to manage exploit and interpret data streams in non stationary environments the book includes the required notions definitions and background to understand the problem of learning from data streams in non stationary environments and synthesizes the state of the art in the domain discussing advanced aspects and concepts and presenting open problems and future challenges in this field provides multiple examples to facilitate the understanding data streams in non stationary environments presents several application cases to show how the methods solve different real world problems discusses the links between methods to help stimulate new research and application directions

during the past two decades it has been generally acknowledged that life cycle bridge analysis can be a systematic tool to address efficient and effective bridge management under uncertainty life cycle management at the bridge network level can lead to an improvement in the allocation of limited financial resources ensuring the safety and functionality of the bridge network life cycle management of bridges and bridge networks based on resilience and sustainability can improve their resistance and robustness to extreme events such as earthquakes tsunamis floods and hurricanes bridge management should consider the impact of environmental conditions and climate change this book addresses important concepts and approaches developed recently on bridge safety maintenance and management in a life cycle context bridge life cycle performance and cost analysis prediction optimization and decision making under uncertainty are discussed the major topics include bridge safety and service life prediction bridge inspection and structural health monitoring bridge maintenance life cycle bridge and bridge network management optimum life

cycle bridge management planning resilience and sustainability of bridges and bridge networks under hazards and bridge management considering climate change by providing practical applications of the presented concepts and approaches this book can help students researchers practitioners infrastructure owners and managers and transportation officials to build up their knowledge of life cycle bridge performance and cost management at both project level and network level under various deteriorating mechanisms hazards and climate change effects

fundamentals of wind farm aerodynamic layout design volume four provides readers with effective wind farm design and layout guidance through algorithm optimization going beyond other references and general approaches in literature focusing on interactions of wake models designers can combine numerical schemes presented in this book which also considers wake models effects and problems on layout optimization in order to simulate and enhance wind farm designs covering the aerodynamic modeling and simulation of wind farms the book's authors include experimental tests supporting modeling simulations and tutorials on the simulation of wind turbines in addition the book includes a cfd technique designed to be more computationally efficient than currently available techniques making this book ideal for industrial engineers in the wind industry who need to produce an accurate simulation within limited timeframes features novel cfd modeling offers global case studies for turbine wind farm layouts includes tutorials on simulation of wind turbine using openfoam

with unprecedented attention on global change the current debate revolves around the availability and sustainability of natural resources and how to achieve equilibrium between what society demands from natural environments and what the natural resource base can provide a full understanding of the range of issues from the consequences of the changing resource bases to the degradation of ecological integrity and the sustainability of life is crucial to the process of developing solutions to this complex challenge authored by world class scientists and scholars the encyclopedia of natural resources provides an authoritative reference on a broad spectrum of topics such as the forcing factors and habitats of life their histories current status and future trends and their societal connections economic values and management the content presents state of the art science and technology development and perspectives of resource management written and designed with a broad audience in mind the entries clearly elucidate the issues for readers at all levels in volume ii water includes 59 entries and air includes 31 entries the water entries cover topical areas

such as fresh water groundwater water quality and watersheds ice and snow coastal environments and marine resources and economics the air entries cover air pollutants atmospheric oscillation circulation patterns and atmospheric water storage as well as agroclimatology climate change and extreme events additional topics in meteorology include acid rain drought ozone depletion water storage and more natural resources represent such a broad scope of complex and challenging topics that a reference book must cover a vast number of subjects in order to be titled an encyclopedia the encyclopedia of natural resources does just that the topics covered help readers face current and future issues in the maintenance of clean air and water as well as the preservation of land resources and native biodiversity also available online this taylor francis encyclopedia is also available through online subscription offering a variety of extra benefits for researchers students and librarians including citation tracking and alerts active reference linking saved searches and marked lists html and pdf format options contact taylor and francis for more information or to inquire about subscription options and print online combination packages us tel 1 888 318 2367 e mail e reference taylorandfrancis com international tel 44 0 20 7017 6062 e mail online sales tandf co uk

because of the uneven distribution of fresh water in time and space and the increasing human population a large number of regions are experiencing water scarcity and stress membrane based desalination technologies like reverse osmosis have the potential to solve the fresh water crisis in coastal areas however in many cases membrane performance is restricted by biofouling biofouling of membrane systems gives a comprehensive overview on the state of the art strategies to control biofouling in spiral wound reverse osmosis membrane systems and point to possible future research directions despite the fact that much research and development has been done to overcome biofouling in spiral wound membrane systems used for water treatment biofouling is still a major practical problem causing performance decline and increased energy demand biofouling of membrane systems is divided into three sections including modelling and numerical analysis non destructive characterization and feed spacer geometry optimization it focuses on the development of biomass in the feed channel of the membrane module and its effect on pressure drop and hydrodynamics this book can be used to develop an integral strategy to control biofouling in spiral wound membrane systems an overview of several potential complementary approaches to solve biofouling is given and an integrated approach for biofouling control and feed spacer design is proposed

an in depth experimental study of the fluid dynamics of turbulent fluidized beds with particles of geldart s group b was carried out for this purpose fluidization behavior was investigated in different fluidized bed plants having diameters in the range of 0.05 m to 1 m pressure fluctuation analysis has been used as an identification tool for the turbulent fluidized bed regime different fluidization conditions have been investigated by variation of the fluidized bed properties the bed material properties and the gas properties based on the measured data a correlation predicting the transition velocity from bubbling to turbulent fluidization is introduced to investigate the local flow structure capacitance probe measurements have been carried out using this measurement technique local solids concentrations and properties of rising bubbles have been determined and analyzed finally an empiric fluid dynamic model was developed using the local measurement data it is mainly based on capacitance probe measurements and shows high accuracy in comparison to pressure data

this multidisciplinary reference takes the reader through all four major phases of interdisciplinary inquiry adequate conceptualization rigorous formulation substantive interpretation and innovative implementation the text introduces a novel synthetic paradigm of public health reasoning and epidemic modelling and implements it with a study of the infamous 14th century ad black death disaster that killed at least one fourth of the european population

compares favorably with the performance of uncoded systems and systems employing other coding techniques

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