



## FILMTEC Membranes

### Water Chemistry and Pretreatment: Silica Scale Prevention

#### Silica Scale Prevention

Dissolved silica ( $\text{SiO}_2$ ) is naturally present in most feed waters in the range of 1–100 mg/L. The prevailing forms of silica are meta silicic acids as  $(\text{H}_2\text{SiO}_3)_n$  with low  $n$  numbers. Since silicic acid is a weak acid, it is mostly in the undissociated form at or below a neutral pH. Supersaturated silicic acid can further polymerize to form insoluble colloidal silica or silica gel, which can cause membrane scaling. The maximum allowable  $\text{SiO}_2$  concentration in the concentrate stream is based on the solubility of  $\text{SiO}_2$ .

The scaling potential for the concentrate stream will be quite different from that of the feed solution because of the increase in the concentration of  $\text{SiO}_2$  and the change in pH. It can be calculated from the feed water analysis and the RO operating parameters.

As the pH exceeds neutral, silicic acid dissociates into the silicate anion ( $\text{SiO}_3^{2-}$ ). This can react with calcium, magnesium, iron, manganese or aluminum to form insoluble silicates.

It was indicated that aluminum is the most powerful precipitant of silicic acid /12/, and the occurrence of silica scaling is mostly correlated with the occurrence of aluminum or iron /13/. It has been reported that, when  $\text{Al}^{3+}$  and  $\text{Fe}^{3+}$  coexist in the pretreated feed water, silica is precipitated even below its saturation /14, 15/. Both  $\text{Al}^{3+}$  and  $\text{Fe}^{3+}$ , therefore, must be less than 0.05 mg/L in the feed water, even if the silica level is below saturation. Since  $\text{Al}^{3+}$  and  $\text{Fe}^{3+}$  salts are used for coagulation in municipal and other industrial water processing, frequent and accurate measurements of these ions are needed even though the feed water itself does not contain high levels of aluminum and iron ions. Fouling with metal silicates may occur from a chemical reaction and precipitation process (scaling), and also from colloidal fouling with submicron particles entering the membrane system. Feed water acidification and preventive acid cleanings are possible measures in cases of a metal silica scaling potential. If colloidal silica and silicates are present in the feed water, a flocculation/filtration process and/or a fine grade prefilter (1  $\mu\text{m}$  or less) should be chosen.

The scaling potential of soluble silica (silicic acid) in the absence of trivalent metal cations can be calculated as follows. The calculation requires the following data for the feed solution (after acid addition, if acid is used for control of calcium carbonate):

- $\text{SiO}_2$  concentration
- Temperature
- pH
- Total alkalinity

#### Calculation /16/

1. The  $\text{SiO}_2$  concentration in the concentrate stream is calculated from the  $\text{SiO}_2$  concentration in the feed solution and the recovery of the reverse osmosis system:

$$\text{SiO}_{2,c} = \text{SiO}_{2,f} \left( \frac{1}{1-Y} \right)$$

where:

$\text{SiO}_{2,c}$  = silica concentration in concentrate as  $\text{SiO}_2$ , mg/L

$\text{SiO}_{2,f}$  = silica concentration in feed as  $\text{SiO}_2$ , mg/L

$Y$  = recovery of the reverse osmosis system, expressed as a decimal

2. Calculate the pH of the concentrate stream from the pH of the feed stream using the procedure given in [Calcium Carbonate Scale Prevention \(Section 2.4.2\)](#).

# Tech Manual Excerpt Dow

**Chris Grover**



## **Tech Manual Excerpt Dow:**

**Technical Manual** United States. War Department, 1943      **Desalination** National Research Council, Division on Earth and Life Studies, Water Science and Technology Board, Committee on Advancing Desalination Technology, 2008-09-14 There has been an exponential increase in desalination capacity both globally and nationally since 1960 fueled in part by growing concern for local water scarcity and made possible to a great extent by a major federal investment for desalination research and development Traditional sources of supply are increasingly expensive unavailable or controversial but desalination technology offers the potential to substantially reduce water scarcity by converting the almost inexhaustible supply of seawater and the apparently vast quantities of brackish groundwater into new sources of freshwater Desalination assesses the state of the art in relevant desalination technologies and factors such as cost and implementation challenges It also describes reasonable long term goals for advancing desalination technology posits recommendations for action and research estimates the funding necessary to support the proposed research agenda and identifies appropriate roles for governmental and nongovernmental entities      **Development of an Environmental Impact Assessment and Decision Support**

**System for Seawater Desalination Plants** Sabine Latteman, 2010-05-11 Seawater desalination is a coastal based industry The growing number of desalination plants worldwide and the increasing size of single facilities emphasises the need for greener desalination technologies and more sustainable desalination projects A comprehensive evaluation of potential environmental impacts of desalination plants this book emphasizes discusses strategies for impact mitigation The author proposes a best available technology concept for seawater desalination technologies in combination with a methodological approach for the environmental impact assessment EIA of desalination projects It outlines the scope of EIA studies including environmental monitoring and toxicity and hydrodynamic modeling studies The book also explores the usefulness of multi criteria analysis as a decision support tool for EIAs and then uses them to compare different intake and pretreatment options for seawater reverse osmosis plants      **Water Management** Iqbal M. Mujtaba, Thokozani Majozi, Mutiu Kolade

Amosa, 2018-11-05 Exponential growth in population and improved standards of living demand increasing amount of freshwater and are putting serious strain on the quantity of naturally available freshwater worldwide Water Management Social and Technological Perspectives discusses developments in energy efficient water production management wastewater treatment and social and political aspects related to water management and re use of treated water It features a scientific and technological perspective to meeting current and future needs discussing such technologies as membrane separation using reverse osmosis the use of nanoparticles for adsorption of impurities from wastewater and the use of thermal methods for desalination The book also discusses increasing the efficiency of water usage in industrial agricultural and domestic applications to ensure a sustainable system of water production usage and recycling With 30 chapters authored by internationally renowned experts this work offers readers a comprehensive view of both social and technological outlooks to

help solve this global issue      Pharmaceutical Water William V. Collentro, 2016-04-19 A major new work on all aspects of water the most used raw material ingredient in the pharmaceutical and biotechnology industries used as an excipient in pharmaceutical formulations as a cleaning agent and as a separately packaged product diluent Drawing on the author's extensive field experience with more than 400 pharmaceutical and related water purification systems the text's numerous case studies illuminate the best and worst of water system design and operation The expanded Second Edition also includes new chapters that discuss passivation and electropolishing rouging ozone systems and accessories USP purified water and water for injection individual component process and instrumentation diagram PIDs with control interface documentation and specification requirements systems installation start up and commissioning      *A Multidisciplinary Introduction to Desalination* Alireza Bazargan, 2022-09-01 Although more than 70% of the globe is covered with water only a small portion is suitable for direct human use making the scarcity of freshwater one of our planet's most serious challenges In this context desalination defined as the removal of salt from water is one of the possible solutions for overcoming our planet's municipal and industrial thirst By drawing upon the authoritative expertise of a remarkable team of international authors this book aims to provide an encompassing and multidisciplinary introduction to various aspects of desalination The forte of this publication is that it does not overtly focus on a particular sub topic of desalination but rather addresses the topic as a whole In other words the unique assortment of reader friendly chapters is designed to strike a delicate balance between the technical and non technical The book is divided into five general sections The first section presents an overview of water scarcity followed by a review of integrated water management and the alternatives to desalination The fundamentals of desalination are provided including simple water chemistry The second section covers the conventional technologies of today including thermal and membrane desalination processes The topics of pre and post treatment are given due credit as no desalination plant can operate without them The third section reviews the history of how desalination technologies originated including a review of today's R&D Section four is concerned with energy and environmental issues including the application of renewable and nuclear energy minimization of energy usage and the water energy nexus brine management and environmental impacts Finally section five covers the social and commercial issues ranging from rural desalination to the politics of desalination Desalination costs and feasibility are presented as well as issues in business development and the future market prospects Effectively *A Multidisciplinary Introduction to Desalination* aims to be a holistic go to compendium for anyone seeking a balanced understanding of the various facets of desalination      Desalination Sustainability Hassan Arafat, 2017-06-09 *Desalination Sustainability A Technical Socioeconomic and Environmental Approach* presents a technical socioeconomical and environmental approach that guides researchers and technology developers on how to quantify the energy efficiency of a proposed desalination process using thermodynamics based tools The book offers the technical reader an understanding of the issues related to desalination sustainability For example technology users such as public utility

managers will gain the ability and tools to assess whether or not desalination is a good choice for a city or country Readers will learn new insights on a clear and practical methodology on how to probe the economic feasibility of desalination using simple and effective tools such as levelized cost of water LCOW calculation Decision makers will find this book to be a valuable resource for the preliminary assessment of whether renewable powered desalination is a good choice for their particular setting Presents the issues related to desalination sustainability Guides researchers and technology developers on how to quantify the energy efficiency of a proposed desalination process using thermodynamics based tools Outlines a clear and practical methodology on how to probe the economic feasibility of desalination using simple and effective tools Provides a roadmap for decision makers on the applicability of a desalination process at a particular setting     Development of Predictive Tools for Membrane Ageing Pierre LeClech,2014-03-15 This study increases our current understanding on the degradation ageing mechanisms occurring on porous membranes used in the water and wastewater industries Accelerated membrane degradation was obtained through both static and consecutive ageing protocols on the pilot scale and a range of carefully selected characterisation and analytical techniques was used to characterise the nascent changes faced by the membrane material The report covers four interrelated sections Critical assessment of characterisation techniques Static accelerated ageing Consecutive accelerated ageing Consecutive ageing of industrially aged membranes This final report summarises the aims objectives outcomes and limitations of the individual work packages along with some recommendations for future work This book is co published with Water Research Australia     *Green and Sustainable Chemistry and Engineering* Concepción Jiménez-González,David J. C. Constable,2025-07-02 The first textbook to fully integrate Green and Sustainable Chemistry and Engineering now in its second edition Green and Sustainable Chemistry and Engineering addresses key concepts and processes from an industrial and manufacturing perspective Using an integrated systems oriented approach this invaluable single volume resource bridges the divide between chemistry process design and engineering as well as environment health safety and life cycle considerations This revised new edition discusses trends in chemical processing that can lead to more sustainable practices explores new methods in the design of greener chemical synthesis addresses sustainability challenges and implementation issues and more Up to date examples and new practical exercises based on the broad experience of the authors in applied and fundamental research corporate consulting and education are incorporated throughout the text Designed to advance green chemistry and green engineering as disciplines in the broader context of sustainability Green and Sustainable Chemistry and Engineering Illustrates the role of green and sustainable chemistry and engineering in the adoption of sustainable practices Describes the components of chemistry supporting the design of sustainable chemical reactions and reaction pathways Presents an approach to materials selection promoting the sustainability of chemical synthesis without diminishing efficiency Highlights key concepts that support the design of more sustainable chemical processes Provides background and context for placing a particular chemical process in

the broader chemical enterprise Includes access to a companion website with a solutions manual and supplementary resources Green and Sustainable Chemistry and Engineering A Practical Design Approach Second Edition remains an ideal textbook for graduate and senior level courses in Chemistry and Chemical Engineering and an invaluable reference for chemists and engineers in manufacturing and R D especially those working in fine chemicals and pharmaceuticals Green Chemistry and Engineering Concepción Jiménez-González, David J. C. Constable, 2011-04-12 The past present and future of green chemistry and green engineering From college campuses to corporations the past decade witnessed a rapidly growing interest in understanding sustainable chemistry and engineering Green Chemistry and Engineering A Practical Design Approach integrates the two disciplines into a single study tool for students and a practical guide for working chemists and engineers In Green Chemistry and Engineering the authors each highly experienced in implementing green chemistry and engineering programs in industrial settings provide the bottom line thinking required to not only bring sustainable chemistry and engineering closer together but to also move business towards more sustainable practices and products Detailing an integrated systems oriented approach that bridges both chemical syntheses and manufacturing processes this invaluable reference covers Green chemistry and green engineering in the movement towards sustainability Designing greener safer chemical synthesis Designing greener safer chemical manufacturing processes Looking beyond current processes to a lifecycle thinking perspective Trends in chemical processing that may lead to more sustainable practices The authors also provide real world examples and exercises to promote further thought and discussion The EPA defines green chemistry as the design of chemical products and processes that reduce or eliminate the use or generation of hazardous substances Green engineering is described as the design commercialization and use of products and processes that are feasible and economical while minimizing both the generation of pollution at the source and the risk to human health and the environment While there is no shortage of books on either discipline Green Chemistry and Engineering is the first to truly integrate the two

**Technical Communication** Michael H. Markel, Mike Markel, 2012-01-04 This volume provides students with accessible and easy to follow strategies for tackling the major types of documents from writing reports to job applications Interactive exercises are included to provide engaging scenarios for writing practice **LEED v4 AP O+M MOCK EXAM** Gang Chen, 2017-08-01 Pass the LEED AP O M Exam Get Your Building LEED Certified Fight Global Warming and Save Money The USGBC released LEED v4 in GreenBuild International Conference and Expo in November 2013 The GBCI started to include the new LEED v4 content for all LEED exams in June 2014 We have incorporated the new LEED v4 content in this book LEED Leadership in Energy and Environmental Design is one of the most important trends in development and is revolutionizing the construction industry It has gained tremendous momentum and has a profound impact on our environment From this book you will be able to 1 Identify your weakness through practice questions 2 Learn to work well under the pressure of timed tests 3 Check your responses against the solutions 4 Understand the solutions for the difficult questions through the

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## **Table of Contents Tech Manual Excerpt Dow**

1. Understanding the eBook Tech Manual Excerpt Dow
  - The Rise of Digital Reading Tech Manual Excerpt Dow
  - Advantages of eBooks Over Traditional Books
2. Identifying Tech Manual Excerpt Dow
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Tech Manual Excerpt Dow
  - User-Friendly Interface
4. Exploring eBook Recommendations from Tech Manual Excerpt Dow
  - Personalized Recommendations

- Tech Manual Excerpt Dow User Reviews and Ratings
- Tech Manual Excerpt Dow and Bestseller Lists
- 5. Accessing Tech Manual Excerpt Dow Free and Paid eBooks
  - Tech Manual Excerpt Dow Public Domain eBooks
  - Tech Manual Excerpt Dow eBook Subscription Services
  - Tech Manual Excerpt Dow Budget-Friendly Options
- 6. Navigating Tech Manual Excerpt Dow eBook Formats
  - ePub, PDF, MOBI, and More
  - Tech Manual Excerpt Dow Compatibility with Devices
  - Tech Manual Excerpt Dow Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Tech Manual Excerpt Dow
  - Highlighting and Note-Taking Tech Manual Excerpt Dow
  - Interactive Elements Tech Manual Excerpt Dow
- 8. Staying Engaged with Tech Manual Excerpt Dow
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Tech Manual Excerpt Dow
- 9. Balancing eBooks and Physical Books Tech Manual Excerpt Dow
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Tech Manual Excerpt Dow
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Tech Manual Excerpt Dow
  - Setting Reading Goals Tech Manual Excerpt Dow
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Tech Manual Excerpt Dow
  - Fact-Checking eBook Content of Tech Manual Excerpt Dow

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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