

Heat Exchanger Fouling Mitigation And Cleaning Techniques

Dominic C. Y. Foo, Mahmoud M. El-Halwagi

Heat Exchanger Fouling Mitigation And Cleaning Techniques:

Handbook [of] Heat Exchanger Fouling Hans Müller-Steinhagen, 2000 This handbook presents the most important technologies concerning the reduction of fouling in heat exchangers and the appropriate technologies of removal and cleaning The general and scientific fundamentals of heat transfer are also explained Developments in Surface Contamination and Cleaning: Applications of Cleaning Techniques Rajiv Kohli, K.L. Mittal, 2018-11-27 Developments in Surface Contamination and Cleaning Applications of Cleaning Techniques Volume Eleven part of the Developments in Surface Contamination and Cleaning series provides a guide to recent advances in the application of cleaning techniques for the removal of surface contamination in various industries such as aerospace automotive biomedical defense energy manufacturing microelectronics optics and xerography The material in this new edition compiles cleaning applications into one easy reference that has been fully updated to incorporate new applications and techniques Taken as a whole the series forms a unique reference for professionals and academics working in the area of surface contamination and cleaning Presents the latest reviewed technical information on precision cleaning applications as written by established experts in the field Provides a single source on the applications of innovative precision cleaning techniques for a wide variety of industries Serves as a guide to the selection of precision cleaning techniques for specific applications Advanced Analytic and Control Techniques for Thermal Systems with Heat Exchangers Libor Pekar, 2020-07-10 Advanced Analytic Control Techniques for Thermal Systems with Heat Exchangers presents the latest research on sophisticated analytic and control techniques specific for Heat Exchangers HXs and heat Exchanger Networks HXNs such as Stability Analysis Efficiency of HXs Fouling Effect Delay Phenomenon Robust Control Algebraic Control Geometric Control Optimal Control Fuzzy Control and Artificial Intelligence techniques Editor Libor Pekar and his team of global expert contributors combine their knowledge and experience of investigated and applied systems and processes in this thorough review of the most advanced networks analyzing their dynamics efficiency transient features physical properties performance feasibility flexibility and controllability The structural and dynamic analyses and control approaches of HXNs as well as energy efficient manipulation techniques are discussed in addition to the design of the control systems through the full life cycle This equips the reader with an understanding of the relevant theory in a variety of settings and scenarios and the confidence to apply that knowledge to solve problems in an academic or professional setting Graduate students and early mid career professionals require a robust understanding of how to suitably design thermal systems with HXs and HXNs to achieve required performance levels which this book offers in one consolidated reference All examples and solved problems included have been tried and tested and these combined with the research driven theory provides professionals researchers and students with the most recent techniques to maximize the energy efficiency and sustainability of existing and new thermal power systems Analyses several advanced techniques the theoretical background of these techniques and includes models examples and results throughout

Focusses on advanced analytic and control techniques which have been investigated or applied to thermal systems with HXs and HXNs Includes practical applications and advanced ideas from leading experts in the field as well as case studies and tested problems and solutions VDI Heat Atlas VDI Gesellschaft, 2010-07-21 For more than 50 years the Springer VDI Heat Atlas has been an indispensable working means for engineers dealing with guestions of heat transfer Featuring 50% more content this new edition covers most fields of heat transfer in industrial and engineering applications It presents the interrelationships between basic scientific methods experimental techniques model based analysis and their transfer to Heat Exchanger Design Handbook Kuppan Thulukkanam, 2013-05-20 This comprehensive technical applications reference covers important aspects of heat exchangers HEs design and modes of operation and practical large scale applications in process power petroleum transport air conditioning refrigeration cryogenics heat recovery energy and other industries This second edition includes over 400 drawings diagrams tables and equations includes updated material throughout coverage of the latest advances in HE design techniques expanded and updated coverage of materials selection and a look at the newest fabrication techniques **Profit Maximization Techniques for Operating Chemical Plants** Sandip K. Lahiri, 2020-04-30 A systematic approach to profit optimization utilizing strategic solutions and methodologies for the chemical process industry In the ongoing battle to reduce the cost of production and increase profit margin within the chemical process industry leaders are searching for new ways to deploy profit optimization strategies Profit Maximization Techniques For Operating Chemical Plants defines strategic planning and implementation techniques for managers senior executives and technical service consultants to help increase profit margins. The book provides in depth insight and practical tools to help readers find new and unique opportunities to implement profit optimization strategies From identifying where the large profit improvement projects are to increasing plant capacity and pushing plant operations towards multiple constraints while maintaining continuous improvements there is a plethora of information to help keep plant operations on budget The book also includes information on Take away methods and techniques for identifying and exploiting potential areas to improve profit within the plant Focus on latest Artificial Intelligence based modeling knowledge discovery and optimization strategies to maximize profit in running plant Describes procedure to develop advance process monitoring and fault diagnosis in running plant Thoughts on engineering design best practices and monitoring to sustain profit improvements Step by step guides to identifying building and deploying improvement applications For leaders and technologists in the industry who want to maximize profit margins this text provides basic concepts guidelines and step by **Encyclopedia of Chemical Processing (Online)** Sunggvu step guides specifically for the chemical plant sector Lee, 2005-11-01 This second edition Encyclopedia supplies nearly 350 gold standard articles on the methods practices products and standards influencing the chemical industries It offers expertly written articles on technologies at the forefront of the field to maximize and enhance the research and production phases of current and emerging chemical manufacturing

practices and techniques This collecting of information is of vital interest to chemical polymer electrical mechanical and civil engineers as well as chemists and chemical researchers A complete reconceptualization of the classic reference series the Encyclopedia of Chemical Processing and Design whose first volume published in 1976 this resource offers extensive A Z treatment of the subject in five simultaneously published volumes with comprehensive indexing of all five volumes in the back matter of each tome It includes material on the design of key unit operations involved with chemical processes the design unit operation and integration of reactors and separation systems process system peripherals such as pumps valves and controllers analytical techniques and equipment and pilot plant design and scale up criteria This reference contains well researched sections on automation equipment design and simulation reliability and maintenance separations technologies and energy and environmental issues Authoritative contributions cover chemical processing equipment engineered systems and laboratory apparatus currently utilized in the field It also presents expert overviews on key engineering science topics in property predictions measurements and analysis novel materials and devices and emerging chemical fields ALSO AVAILABLE ONLINE This Taylor E mail e reference taylorandfrancis com International Tel 44 0 20 7017 6062 E mail online sales tandf co Advanced Applications in Heat Exchanger Technologies Sunil Kumar, Kavita Rathore, Debiyoti Banerjee, 2025-08-13 Advanced Applications in Heat Exchanger Technologies presents the most recent developments in enhancing heat exchanger performance reliability and resilience including the implementation of Artificial Intelligence Machine Learning and Additive Manufacturing Covering the essential parts of many commercial endeavors ranging from aerospace to marine applications to oil and gas the book discusses various heat exchanger types and interdisciplinary industry applications It encompasses several different techniques such as nanofluids microchannel heat exchangers computer modeling advanced manufacturing and optimization The book addresses real world concerns that impact long term heat exchanger performance and dependability such as fouling corrosion prevention and maintenance measures This book is intended for researchers and graduate students who are interested in heat exchangers R D and the diverse range of industrial applications of heat exchanger technologies in contemporary practice Developments in Surface Contamination and Cleaning, Volume 3 Rajiv Kohli, Kashmiri L. Mittal, 2011-03-25 The contributions in this volume cover methods for removal of particle contaminants on surfaces Several of these methods are well established and have been employed in industrial applications for a long time However the ever higher demand for removal of smaller particles on newer substrate materials is driving continuous development of the established cleaning methods and alternative innovative methods for particle removal This book provides information on the latest developments in this topic area Comprehensive coverage of innovations in surface contamination and cleaning Written by established experts in the contamination and cleaning field Each chapter is a comprehensive review of the state of the art Case studies included **Petroleum Refining Design and** Applications Handbook, Volume 4 A. Kayode Coker, 2023-02-01 PETROLEUM REFINING This fourth volume in the

Petroleum Refining set this book continues the most up to date and comprehensive coverage of the most significant and recent changes to petroleum refining presenting the state of the art to the engineer scientist or student This book provides the design of heat exchanger equipment crude oil fouling in pre heat train exchangers crude oil fouling models fouling mitigation and monitoring prevention and control of liquid and gas side fouling using the Excel spreadsheet and UniSim design software for the design of shell and tube heat exchangers double pipe heat exchangers air cooled exchangers heat loss tracing for process piping pinch analysis for hot and cold utility targets and process safety incidents involving these equipment items and pertinent industrial case studies Use of UniSim Design UniSim STE software is illustrated in further elucidation of the design of shell and tube heat exchangers condensers and UniSim ExchangerNet R470 for the design of heat exchanger networks using pinch analysis This is important for determining minimum cold and hot utility requirements composite curves of hot and cold streams the grand composite curve the heat exchanger network and the relationship between operating cost index target and the capital cost index target against Tmin Useful as a textbook this is also an excellent handy go to reference for the veteran engineer a volume no chemical or process engineering library should be without Written by one of the world's foremost authorities this book sets the standard for the industry and is an integral part of the petroleum refining renaissance It is truly a must have for any practicing engineer or student in this area This groundbreaking new volume Assists engineers in rapidly analyzing problems and finding effective design methods and select mechanical specifications Provides improved design manuals to methods and proven fundamentals of process design with related data and charts Covers a complete range of basic day to day petroleum refining operations topics with new materials on significant industry changes Extensive Excel spreadsheets for the design of process vessels for mechanical separation of two phase and three phase fluids double pipe heat exchanger air cooled exchanger pinch analysis for hot and cold utility targets Provides UniSim based case studies for enabling simulation of key processes outlined in the book Helps achieve optimum operations and process conditions and shows how to translate design fundamentals into mechanical equipment specifications Has a related website that includes computer applications along with spreadsheets and concise applied process design flow charts and process data sheets Provides various case studies of process safety incidents in refineries and means of mitigating these from investigations by the US Chemical Safety Board Includes a vast Glossary of Petroleum and Process Intensification and Integration for Sustainable Design Dominic C. Y. Foo, Mahmoud Technical Terminology M. El-Halwagi, 2021-04-19 Presents comprehensive coverage of process intensification and integration for sustainable design along with fundamental techniques and experiences from the industry Drawing from fundamental techniques and recent industrial experiences this book discusses the many developments in process intensification and integration and focuses on increasing sustainability via several overarching topics such as Sustainable Manufacturing Energy Saving Technologies and Resource Conservation and Pollution Prevention Techniques Process Intensification and Integration for Sustainable Design

starts discussions on shale gas as an option for the production of chemicals and challenges for process intensification the design and techno economic analysis of separation units to handle feedstock variability in shale gas treatment RO PRO desalination and techno economic and environmental assessment of ultrathin polysulfone membranes for oxygen enriched combustion Next it looks at process intensification of membrane based systems for water energy and environment applications the design of internally heat integrated distillation column HIDiC and graphical analysis and integration of heat exchanger networks with heat pumps Decomposition and implementation of large scale interplant heat integration is covered as is the synthesis of combined heat and mass exchange networks CHAMENs with renewables The book also covers optimization strategies for integrating and intensifying housing complexes a sustainable biomass conversion process assessment and more Covers the many advances and changes in process intensification and integration Provides side by side discussions of fundamental techniques and recent industrial experiences to guide practitioners in their own processes Presents comprehensive coverage of topics relevant among others to the process industry biorefineries and plant energy management Offers insightful analysis and integration of reactor and heat exchanger network Looks at optimization of integrated water and multi regenerator membrane systems involving multi contaminants Process Intensification and Integration for Sustainable Design is an ideal book for process engineers chemical engineers engineering scientists engineering consultants and chemists Innovative Heat Exchangers Hans-Jörg Bart, Stephan Scholl, 2017-12-30 This accessible book presents unconventional technologies in heat exchanger design that have the capacity to provide solutions to major concerns within the process and power generating industries Demonstrating the advantages and limits of these innovative heat exchangers it also discusses micro and nanostructure surfaces and micro scale equipment and introduces pillow plate helical and expanded metal baffle concepts It offers step by step worked examples which provide instructions for developing an initial configuration and are supported by clear detailed drawings and pictures Various types of heat exchangers are available and they are widely used in all fields of industry for cooling or heating purposes including in combustion engines The market in 2012 was estimated to be U 42 7 billion and the global demand for heat exchangers is experiencing an annual growth of about 7 8 % The market value is expected to reach U 57 9 billion in 2016 and approach U 78 16 billion in 2020 Providing a valuable introduction to students and researchers this book offers clear and concise information to thermal engineers mechanical engineers process engineers and heat exchanger specialists Ludwig's Applied Process Design for Chemical and Petrochemical Plants A. Kayode Coker, 2014-11-29 The fourth edition of Ludwig s Applied Process Design for Chemical and Petrochemical Plants Volume Three is a core reference for chemical plant and process engineers and provides an unrivalled reference on methods process fundamentals and supporting design data New to this edition are expanded chapters on heat transfer plus additional chapters focused on the design of shell and tube heat exchangers double pipe heat exchangers and air coolers Heat tracer requirements for pipelines and heat loss from insulated

pipelines are covered in this new edition along with batch heating and cooling of process fluids process integration and industrial reactors The book also looks at the troubleshooting of process equipment and corrosion and metallurgy Assists engineers in rapidly analyzing problems and finding effective design methods and mechanical specifications Definitive guide to the selection and design of various equipment types including heat exchanger sizing and compressor sizing with established design codes Batch heating and cooling of process fluids supported by Excel programs Optimization for the Process Industries Frank (Xin X.) Zhu, 2013-11-25 Exploring methods and techniques to optimize processing energy efficiency in process plants Energy and Process Optimization for the Process Industries provides a holistic approach that considers optimizing process conditions changing process flowschemes modifying equipment internals and upgrading process technology that has already been used in a process plant with success Field tested by numerous operating plants the book describes technical solutions to reduce energy consumption leading to significant returns on capital and includes an 8 point Guidelines for Success The book provides managers chemical and mechanical engineers and plant operators with methods and tools for continuous energy and process improvements **EcoDesign and Sustainability II** Yusuke Kishita, Mitsutaka Matsumoto, Masato Inoue, Shinichi Fukushige, 2020-11-10 This book highlights cutting edge ecodesign research covering product and service design smart manufacturing and social perspectives in ecodesign Featuring selected papers presented at EcoDesign 2019 11th International Symposium on Environmentally Conscious Design and Inverse Manufacturing it also includes diverse interdisciplinary approaches to foster ecodesign research and activities In the context of Sustainable Development Goals SDGs it addresses the need for the manufacturing industry to design innovations for sustainable value creation taking into account technological developments legislation and consumer lifestyles Further the book discusses the concept of circular economy which originated in Europe and aims to increase resource efficiency by shifting away from the linear economy Focusing on product life cycle design and management smart manufacturing circular economy and business strategies and providing useful approaches and solutions to these emerging concepts this book is intended for both researchers and practitioners working in the broad field of ecodesign and sustainability 27th European Symposium on Computer Aided Process Engineering, 2017-09-21 27th European Symposium on Computer Aided Process Engineering Volume 40 contains the papers presented at the 27th European Society of Computer Aided Process Engineering ESCAPE event held in Barcelona October 1 5 2017 It is a valuable resource for chemical engineers chemical process engineers researchers in industry and academia students and consultants for chemical industries Presents findings and discussions from the 27th European Society of Computer Aided Process Engineering ESCAPE event

Advances in Heat Transfer, 2010-11-02 Advances in Heat Transfer fills the information gap between regularly scheduled journals and university level textbooks by providing in depth review articles over a broader scope than in journals or texts The articles which serve as a broad review for experts in the field will also be of great interest to non specialists who

need to keep up to date with the results of the latest research This serial is essential reading for all mechanical chemical and industrial engineers working in the field of heat transfer graduate schools or industry Provides an overview of review articles on topics of current interest Bridges the gap between academic researchers and practitioners in industry A long running and Corrosion and Fouling Control in Desalination Industry Viswanathan S. Saji, Abdelkader A. Meroufel, Ahmad A. Sorour, 2020-02-05 This book addresses two critical problems that plague materials that make up components in both desalination and cooling water systems corrosion and fouling The book addresses various types and components of industrial desalination technologies with solutions for controlling corrosion scaling and biofouling Issues unique to desalination systems vital for the production of clean water are considered as well Green technologies are discussed throughout along with environmental and economic considerations. The book presents solutions to the problems encountered by internal and external parts of these systems and will aid professionals that design operate and maintain them It will be valuable to professionals in the materials corrosion electrochemical and wastewater industries as well as chemical engineers Addresses the corrosion issues facing the conventional and modern water desalination systems Discusses the causes and remediation of problems caused by corrosion scaling and biofouling in water treatment Offers green solutions thereby minimizing environmental impact while increasing control and productivity of water systems Suitable for professionals working with water desalination plants materials scientists and corrosion engineers Kuppan Thulukkanam, 2024-02-29 Heat Exchangers Operation Performance and Maintenance Third Edition covers heat exchanger installation commissioning and operation and maintenance and performance monitoring in service Focusing on in service issues like flow induced vibration corrosion and corrosion control and fouling and fouling control the book explores performance deterioration in service maintenance issues defects tube failures and how to detect these issues with NDT methods It discusses various cleaning processes and repair methods The book also considers boilers utility boilers coal based thermal power plants boiler corrosion and boiler degradation mechanisms It discusses different types of cooling systems feedwater treatment deaerators feedwater heaters economizers condensers cooling towers and cooling water management The book serves as a useful reference for researchers graduate students power plant engineers and engineers in the field of heat exchanger design including pressure vessel manufacturers Scale Formation in Heat Exchangers Mohammad Varnaseri, Seyed Mohsen Peyghambarzadeh, 2024-02-21 This book brings together a wide range of current research to create a holistic understanding of fouling It draws upon practical and laboratory experiences spanning many years While offering an overview of various fouling types the book s emphasis is on crystallization fouling a facet seldom addressed in the existing literature Furthermore this book goes beyond theory by providing practical examples for heat exchanger design incorporating the pivotal consideration of fouling s impact It focuses especially on calcium salts such as calcium carbonate and calcium sulfate Fouling formation represents a ubiquitous challenge across diverse industrial sectors spanning oil gas

petrochemicals food pharmaceuticals and power generation This encroaching fouling prevalent within heating equipment not only jeopardizes the integrity of machinery but also significantly saps energy resources Consequently extensive research efforts have been undertaken to comprehensively explorefouling formation through both experimental and theoretical avenues across various heating apparatuses The book s mission is to facilitate a broader comprehension of crystallization fouling research revealing the various factors influencing this form of fouling Additionally it critiques prior research endeavors identifying their strengths and weaknesses while pinpointing potential avenues for future investigation

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