

Composite Fouling on Heat Exchanger Surfaces



Hong Yu

NOVA

Composite Fouling On Heat Exchanger Surface

Zahid Amjad, Konstantinos D. Demadis



Composite Fouling On Heat Exchanger Surface:

Composite Fouling on Heat Exchanger Surfaces Yu Hong, 2007 Deposition of amorphous silica SiO₂ and calcium oxalate CaOx on the calandria tubes of juice evaporators cause serious processing problems in Australian cane sugar mills. The removal of these deposits by mechanical and chemical means is a time consuming and costly experience. The cost of downtime and chemical cleaning can be several million dollars per year for the Australian sugar industry. The interactions between CaOx and SiO₂ have not been investigated previously because conventional studies only address fouling by individual components. The present work evaluates their interactions using two experimental approaches: batch tests for assessing kinetic and thermodynamic behaviour and fouling loop experiments for examining composite fouling behaviour under different operating conditions. These two approaches were employed both in the absence and in the presence of sugar to elucidate the effect of sugar on composite fouling mechanisms and to determine the controlling species responsible for composite fouling. The combined information obtained from both the batch and fouling loop tests in this study offer a unique insight into the mechanisms of composite fouling of CaOx and SiO₂. *Heat Exchangers* Jovan Mitrovic, 2012-03-09

Selecting and bringing together matter provided by specialists, this project offers comprehensive information on particular cases of heat exchangers. The selection was guided by actual and future demands of applied research and industry, mainly focusing on the efficient use and conversion of energy in a changing environment. Besides the questions of thermodynamic basics, the book addresses several important issues such as conceptions, design, operations, fouling, and cleaning of heat exchangers. It includes also storage of thermal energy and geothermal energy use directly or by application of heat pumps. The contributions are thematically grouped in sections and the content of each section is introduced by summarising the main objectives of the encompassed chapters. The book is not necessarily intended to be an elementary source of the knowledge in the area it covers but rather a mentor while pursuing detailed solutions of specific technical problems which face engineers and technicians engaged in research and development in the fields of heat transfer and heat exchangers. **Polymer**

Nanocomposite Coatings Vikas Mittal, 2016-04-19 This work explores the use of composite nanotechnology for thin coatings on various substrates. It compiles recent advances in nanocomposite coatings for experienced researchers and provides background information for those new to the field. The book not only explains the synthesis of bulk nanocomposite materials but also describes their application in *Advanced Applications in Heat Exchanger Technologies* Sunil Kumar, Kavita Rathore, Debjyoti 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 *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 explore fouling 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 *Water-Formed Deposits* Zahid Amjad, Konstantinos D. Demadis, 2022-03-24 *Water Formed Deposits Fundamentals and Mitigation Strategies* wholly presents the important issue of deposits in aqueous systems both industrial and biological By analyzing causes mechanisms and mitigation strategies the book helps researchers engineers end users gain a fundamental understanding of the issues underlying deposit formation and mitigation It covers numerous fundamental aspects of water formed deposits while also giving an applications perspective The book's goal is to assist the reader in his/her understanding of the important issues of scale formation while also helping with potential solutions Provides a fundamental understanding of deposit formation by presenting basic science and mechanisms Presents an applications perspective Reveals a systematic overview of deposit related challenges and their mitigation Correlates structure to performance in mitigation strategies Analyzes current legal aspects and regulations Includes case studies from the real industrial world for the industrial reader end user *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

Thermal and Catalytic Processing in Petroleum Refining Operations James G. Speight, 2023-04-11 This book presents the thermal and catalytic processes in refining The differences between each type of process and the types of feedstock that can be used for the processes are presented Relevant process data is provided and process operations are fully described This accessible guide is written for managers professionals and technicians as well as graduate students transitioning into the refining industry Key Features Describes feedstock evaluation and the effects of elemental chemical and fractional composition Details reactor types and bed types Explores the process options and parameters involved Assesses coke formation and additives Considers next generation processes and developments

Composite Materials for Offshore Operations S. S. Wang, D. W. Fitting, 1995

Energy Efficiency for Engineers and Technologists Mr. Rohit Manglik, 2024-07-24

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