

Fouling of Membrane and Thermal Units

A Unified Approach to Its Principles, Assessment, Control, and Mitigation

by **Roya Sheikholeslami**



This scholarly monograph authored by a leading fouling researcher reflects the immense advances in basic and applied aspects of fouling that have taken place over the last 40 years. Traditionally, engineers and scientists have been encouraged to develop their expertise in a specific area; hence very limited may have the experience of dealing with the same principles in completely different systems. As such indeed a very limited people have experience with fouling of differing process equipment such as membranes and heat exchangers. This fact often leads to exhaustive and unnecessary efforts as they attempt to reinvent the wheel.

It is therefore more constructive for design, mitigation and control to assess fouling in terms of its own principles and irrespective of the process unit in which it occurs. This book aims to combine and consolidate the principles upon which the fouling phenomenon is based instead of the processes in which it occurs and to highlight the similarities and differences that may exist in fouling of different types of process equipment including both membrane and thermal units and from both the fundamental and practical aspects. This monumental effort has been admirably tackled by the author. This book will no doubt help individuals to better understand, address, and mitigate the fouling problem and to accelerate progress in fouling research and development efforts.

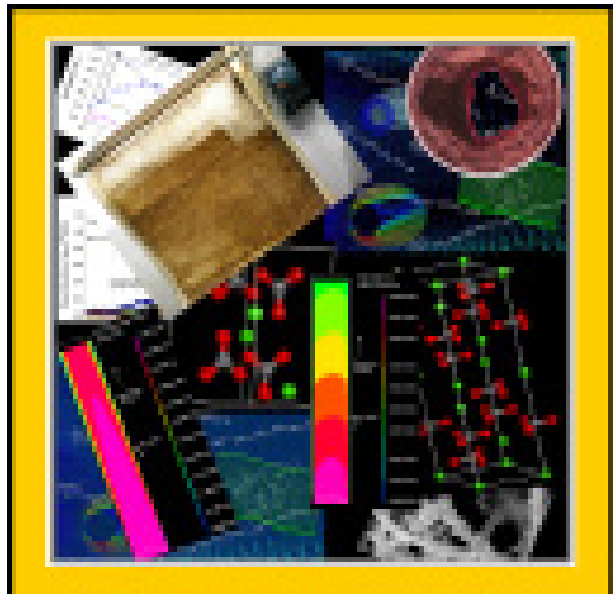


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