



# Membrane-Assisted Crystallization Technology (Advances in Chemical and Process Engineering)

Enrico Drioli, Gianluca Di Profio, Efrem Curcio

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This book covers all the basic and applied aspects of crystallization processes based on membrane technology. Synthesis and processing of membrane materials are discussed and reviewed, while mass/heat transport and control are treated in view of the non-reversible thermodynamic principles and statistical thermodynamics. Engineering process design and crystalline materials products properties, and also the relation to other traditional crystallization formats, are analyzed. Advantages, limitations, and future developments are also included in the content, with special emphasis on new fields of applications like microfluidic configurations, controlled proteins (also membrane proteins) crystallization, organic semiconductors single crystals production, and optical materials.

Readership: Undergraduates, graduates, researchers, and professionals studying/dealing with physical chemistry, chemical engineering, materials chemistry/nanochemistry, liquid crystals & crystallography, surface science, and general material science.



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