

PROGRESS IN
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5

COMPUTATIONAL
METHODS FOR
COMPLEX
LIQUID-FLUID
INTERFACES

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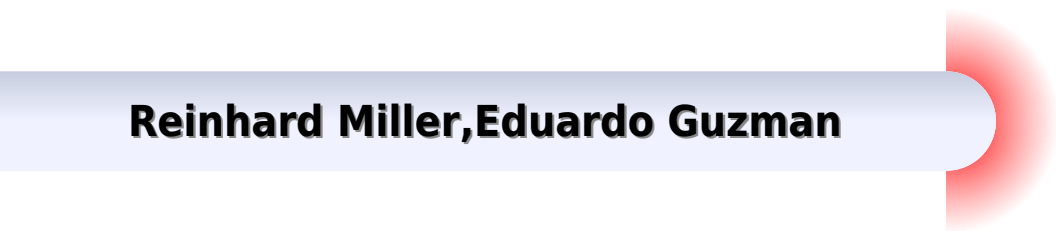
Mohammad Taeibi Rahn
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Reinhard Miller, Eduardo Guzman



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Transport Processes at Fluidic Interfaces Dieter Bothe, Arnold Reusken, 2017-07-13 There are several physico chemical processes that determine the behavior of multiphase fluid systems e g the fluid dynamics in the different phases and the dynamics of the interface s mass transport between the fluids adsorption effects at the interface and transport of surfactants on the interface and result in heterogeneous interface properties In general these processes are strongly coupled and local properties of the interface play a crucial role A thorough understanding of the behavior of such complex flow problems must be based on physically sound mathematical models which especially account for the local processes at the interface This book presents recent findings on the rigorous derivation and mathematical analysis of such models and on the development of numerical methods for direct numerical simulations Validation results are based on specifically designed experiments using high resolution experimental techniques A special feature of this book is its focus on an interdisciplinary research approach combining Applied Analysis Numerical Mathematics Interface Physics and Chemistry as well as relevant research areas in the Engineering Sciences The contributions originated from the joint interdisciplinary research projects in the DFG Priority Programme SPP 1506 Transport Processes at Fluidic Interfaces

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Finite Elements Sashikumaar Ganesan, Lutz Tobiska, 2017-05-11 Written in easy to understand language this self explanatory guide introduces the fundamentals of finite element methods and its application to differential equations Beginning with a brief introduction to Sobolev spaces and elliptic scalar problems the text progresses through an explanation of finite element spaces and estimates for the interpolation error The concepts of finite element methods for parabolic scalar parabolic problems object oriented finite element algorithms efficient implementation techniques and high dimensional parabolic problems are presented in different chapters Recent advances in finite element methods including non conforming finite elements for boundary value problems of higher order and approaches for solving differential equations in high dimensional domains are explained for the benefit of the reader Numerous solved examples and mathematical theorems are interspersed throughout the text for enhanced learning

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Platikanov,Libero Liggieri,Reinhard Miller,2018-07-27 This book describes in detail the scientific philosophy of the formation and stabilization destabilization of foams It presents all hierarchical steps of a foam starting from the properties of adsorption layers formed by foaming agents discussing the properties of foam films as the building blocks of a foam and then describing details of real foams including many fields of application The information presented in the book is useful to people working on the formulation of foams or attempting to avoid or destruct foams in unwanted situations Innovations in Ionic

Liquid-Based Surfactants and Interfacial Phenomena Mona Kharazi,Javad Saien,Aliyar Javadi,Reinhard Miller,2025-07-22 Innovations in Ionic Liquid Based Surfactants and Interfacial Phenomena offers a comprehensive exploration of ionic liquid based surfactants ILBSs and their transformative potential This book is divided into three sections Section I establishes the fundamental properties of ionic liquids ILs and ILBSs emphasizing their unique structures environmental advantages and flexible design It details the diverse types of ILBSs highlighting their individual characteristics and applications Section II delves into the crucial interfacial behavior of ILBSs examining their role in reducing interfacial tension influencing micelle formation enhancing emulsification processes and modifying surface wettability The mechanisms underlying these phenomena are thoroughly investigated with particular attention paid to the impact of the structure of ILBSs on their performance Section III showcases the broad applicability of ILBSs across various industries Specific applications discussed include the stabilization of particle dispersions the improvement of extraction techniques and the significant enhancement of oil recovery from challenging reservoirs This book bridges the gap between fundamental principles and practical applications equipping the readers with the necessary knowledge to harness the revolutionary potential of ILBSs It serves as an invaluable resource for researchers academics and professionals in this rapidly evolving field **Emulsions** Reinhard

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