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# **Interface and Transport Dynamics**

## **Computational Modelling**



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# Interface And Transport Dynamics Computational Modelling

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number of hybrid approaches are now created in which ideas coming from distinct disciplines or modelling approaches are unified to produce new and computationally efficient techniques **Coping with Complexity: Model Reduction and Data**

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*Multiresolution Methods in Scattered Data Modelling* Armin Iske, 2012-12-06 This application oriented work concerns the design of efficient robust and reliable algorithms for the numerical simulation of multiscale phenomena To this end various modern techniques from scattered data modelling such as splines over triangulations and radial basis functions are combined with customized adaptive strategies which are developed individually in this work The resulting multiresolution methods include thinning algorithms multi levelapproximation schemes and meshfree discretizations for transport equa tions The utility of the proposed computational methods is supported by their wide range of applications such as image compression hierarchical sur face visualization and multiscale flow simulation Special emphasis is placed on comparisons between the various numerical algorithms developed in this work and comparable state of the art methods To this end extensive numerical examples mainly arising from real world applications are provided This research monograph is arranged

in six chapters 1 Introduction 2 Algorithms and Data Structures 3 Radial Basis Functions 4 Thinning Algorithms 5 Multilevel Approximation Schemes 6 Meshfree Methods for Transport Equations Chapter 1 provides a preliminary discussion on basic concepts tools and principles of multiresolution methods scattered data modelling multilevel methods and adaptive irregular sampling Relevant algorithms and data structures such as triangulation methods heaps and quadtrees are then introduced in

**Chapter 2 Meshfree Methods for Partial Differential Equations IV** Michael Griebel, Marc Alexander Schweitzer, 2008-10-10 The numerical treatment of partial differential equations with particle methods and meshfree discretization techniques is a very active research field both in the mathematics and engineering community Due to their independence of a mesh particle schemes and meshfree methods can deal with large geometric changes of the domain more easily than classical discretization techniques Furthermore meshfree methods offer a promising approach for the coupling of particle models to continuous models This volume of LNCSE is a collection of the proceedings papers of the Fourth International Workshop on Meshfree Methods held in September 2007 in Bonn The articles address the different meshfree methods SPH PUM GFEM EFGM RKPM etc and their application in applied mathematics physics and engineering The volume is intended to foster this very active and exciting area of interdisciplinary research and to present recent advances and results in this field

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**Journal of the Royal Society Interface**, 2008 **Fundamentals of Modeling for Metals Processing** David U. Furrer, ASM International, Handbook Committee, 2009 This Handbook provides an overview of the

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