



Interface and Transport Dynamics: Computational Modelling (Lecture Notes in Computational Science and Engineering)

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An overview of the recent progress of research in computational physics and materials science. Particular topics are modelling of traffic flow and complex multi-scale solidification phenomena. The sections introduce novel research results of experts from a considerable diversity of disciplines such as physics, mathematical and computational modelling, nonlinear dynamics, materials sciences, statistical mechanics and foundry technique.

The book intends to create a comprehensive and coherent image of the current research status and illustrates new simulation results of transport and interface dynamics by high resolution graphics. Various possible perspectives are formulated for future activities. Special emphasis is laid on exchanging experiences concerning numerical tools and on the bridging of the scales as is necessary in a variety of scientific and engineering applications. An interesting possibility along this line was the coupling of different computational approaches leading to hybrid simulations.

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