

Numerical analysis of multiscale problems

Graham, Ivan G., editor

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Abstrak

The symposium focused on numerical analysis of multiscale problems and this book contains 10 invited articles from some of the meeting's key speakers, covering a range of topics of contemporary interest in this area. Articles cover the analysis of forward and inverse PDE problems in heterogeneous media, high-frequency wave propagation, atomistic-continuum modeling and high-dimensional problems arising in modeling uncertainty. Novel upscaling and preconditioning techniques, as well as applications to turbulent multi-phase flow, and to problems of current interest in materials science are all addressed. This book presents the current state-of-the-art in the numerical analysis of multiscale problems.