

Preface

We are pleased to introduce the readers these proceedings containing a selection of papers from invited lectures and contributed talks presented at the Workshop on Fluid Dynamics in Porous Media that was held in Coimbra, Portugal, on September 12–14, 2011.

We believe that the Workshop on Fluid Dynamics in Porous Media was an occasion of inspiration for all participants and helpful for strengthening the links between researchers working in various modeling aspects in porous media.

This book includes research work of international recognized leaders in their respective fields and presents advances in both theory and applications. The contributions are devoted to mathematical modeling, numerical simulation, and their applications. These proceedings provide the readers an overview on the latest findings and new challenges in fluid dynamics in porous media, thus making them appealing to a multidisciplinary audience, including mathematicians, engineers, physicists, and computational scientists.

We express our gratitude to all the authors for their excellent contribution. We also wish to thank the generous collaboration of anonymous reviewers. This book could not have been successfully concluded without their assistance.

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