

Preface

This is the second book of Springer Briefs in Applied Sciences and Technology, Series in Computational Mechanics by Springer, which I contribute with pleasure. As a comment for future work at the end of “Turbulent Impinging Jets into Porous Materials”, ISBN 978-3-642-28276-8, Springer Briefs in Computational Mechanics, 2012, two suggestions for extending the model therein were mentioned, namely the inclusion of chemical reactions in the fluid phase and the movement of the solid phase. Following it, this book fulfills that aspiration and I hope that the material herein can be of interest to the readers.

This work is way overdue as I had in mind finishing it by the middle of last year (2014). My sincere apologies to the publishers for postponing the delivery of this manuscript as unexpected difficulties arose. As in the previous issue, here again I am thankful to Professor Dr.-Ing. Andreas Öchsner, Editor-in-Chief of the Springer book series on “Advanced Structured Materials” and Dr. Christoph Baumann, Springer Senior Engineering Editor.

Once more the continuous support from our research funding agencies in Brazil, namely, CNPq, CAPES, and FAPESP, is greatly appreciated. In this volume, most of the presented material is related to graduate research work done by my former students, in particular those conducted by Dr. M.B. Saito, Dr. A.C. Pivem, and Master graduate J.E.A. Coutinho. To them and to all my other former students who have contributed to our efforts over the last 15 years, my sincere thanks. Last but not least, I would like to express my appreciation to Mrs. Ingrid Maiara Souza Chagas for her careful and skillful typing of the manuscript.

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