

Preface

In the last years, several transport processes (namely, heat and mass transfer) textbooks have been published. Transport processes in porous materials is a field of great technological and industrial interest and the applied research in heat and mass transfer in porous materials has generated increasing interest over the past five decades because of the importance of porous materials and transport processes in many engineering applications. A large amount of literature has been generated on this subject and significant advances have been made in modelling fluid flow and heat and mass transfer through porous materials.

The purpose of this book, *Industrial and Technological Applications of Transport in Porous Materials*, is to provide a collection of recent contributions in the field of heat and mass transfer in porous media and their industrial and technological applications.

The main benefit of the book is that it discusses some of the most important topics related to transport phenomenon in engineering and their future applications. It includes a set of new technological applications in the field of heat and mass transfer phenomena in a porous medium domain, such as drying technology, filtration, infrared thermography, energy, recycling, etc. At the same time, these topics will be encountered in a variety of scientific and engineering disciplines, such as chemical, civil, agricultural, mechanical engineering, etc. The book is divided into several chapters that intend to be a resume of the current state of knowledge for the benefit of professional colleagues.

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