



# Trends in Continuum Mechanics of Porous Media (Theory and Applications of Transport in Porous Media)

By Reint de Boer

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Over the last decade and particularly in recent years, the macroscopic porous media theory has made decisive progress concerning the fundamentals of the theory and the development of mathematical models in various fields of engineering and biomechanics. This progress has attracted some attention, and therefore conferences devoted almost exclusively to the macroscopic porous media theory have been organized in order to collect all findings, to present new results, and to discuss new trends. Many important contributions have also been published in national and international journals, which have brought the porous media theory, in some parts, to a close. Therefore, the time seems to be ripe to review the state of the art and to show new trends in the continuum mechanical treatment of saturated and unsaturated capillary and non-capillary porous solids.

This book addresses postgraduate students and scientists working in engineering, physics, and mathematics. It provides an outline of modern theory of porous media and shows some trends in theory and in applications.

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From the reviews of the first edition:

"The purpose of this book is to present the state-of-the-art trends in various fields of the theory of porous media. ... this book provides a solid fundamental and comprehensive presentation of the mathematical theory ... pointing out the most important practical applications. ... The book is recommended to physicists, chemical engineers, biologists, and also to researchers interested in the mathematical theory of flow in porous media . . . . I believe that the concepts presented in this book will stimulate new research . . ." (Ioan Pop, Zentralblatt MATH, Vol. 1085, 2006)

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