



Handbook of Porous Media, Third Edition

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Handbook of Porous Media, Third Edition

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Handbook of Porous Media, Third Edition offers a comprehensive overview of the latest theories on flow, transport, and heat-exchange processes in porous media. It also details sophisticated porous media models which can be used to improve the accuracy of modeling in a variety of practical applications.

Featuring contributions from leading experts in their respective fields, this book:

- Presents the general characteristics and modeling of porous media, such as multiscale modeling of porous media, two-phase flow, compressible porous media, and dispersion in porous media
- Addresses the fundamental topics of transport in porous media, including theoretical models of transport, membrane transport phenomena, modeling transport properties, and transport in biomedical applications
- Describes several important aspects of turbulence in porous media, including advances in modeling turbulence phenomena in heterogeneous porous media
- Explores heat transfer of nanofluids as well as thermal transport in porous media, including forced convection, double diffusive convection, high-heat flux applications, and thermal behavior of poroelastic media
- Covers geological applications in porous media, including modeling and experimental challenges related to oil fields, CO₂ migration, groundwater flows, and velocity measurements
- Discusses relevant attributes of experimental work or numerical techniques whenever applicable

Paving the way for the establishment of multidisciplinary areas of research, **Handbook of Porous Media, Third Edition** further enhances cooperation between engineers and scientists by providing a valuable reference for addressing some of the most challenging issues in engineering and the hydrogeological, biological, and biomedical sciences.

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Miguel Willis:

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