



Turbulence in Porous Media: Modeling and Applications (Elsevier Insights)

Marcelo J.S. de Lemos

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‘Turbulence in Porous Media’ introduces the reader to the characterisation of turbulent flow, heat and mass transfer in permeable media, including analytical data and a review of available experimental data. Such transport processes occurring at a relatively high velocity in permeable media are present in a number of engineering and natural flows. This new edition features a completely updated text including two new chapters exploring Turbulent Combustion and Moving Porous Media. De Lemos has expertly brought together a text that compiles, details, compares and evaluates available methodologies for modelling and simulating flow, providing an essential tour for engineering students working within the field as well as those working in chemistry, physics, applied mathematics, and geological and environmental sciences.

- Brings together groundbreaking and complex research on turbulence in porous media
- Extends the original model to situations including reactive systems
- Now discusses movement of the porous matrix



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