



# Essentials of Multiphase Flow and Transport in Porous Media

George F. Pinder, William G. Gray

E-Book	978-0-470-38079-6	September 2008	<b>\$124.99</b>
Hardcover	978-0-470-31762-4	August 2008	<b>\$155.00</b>
O-Book	978-0-470-38080-2	February 2008	<b>Available on Wiley Online Library</b>

## DESCRIPTION

Learn the fundamental concepts that underlie the physics of multiphase flow and transport in porous media with the information in *Essentials of Multiphase Flow in Porous Media*, which demonstrates the mathematical-physical ways to express and address multiphase flow problems. Find a logical, step-by-step introduction to everything from the simple concepts to the advanced equations useful for addressing real-world problems like infiltration, groundwater contamination, and movement of non-aqueous phase liquids. Discover and apply the governing equations for application to these and other problems in light of the physics that influence system behavior.

## ABOUT THE AUTHOR

George F. Pinder, PHD, is the Director of the Research Center for Groundwater Remediation Design and also a Professor of Civil and Environmental Engineering, Mathematics and Statistics, and Computer Science at the University of Vermont. He has served on the editorial board of numerous journals including the International Journal for Numerical Methods in Fluids. He has published extensively in the fields of groundwater flow and transport modeling and has written on the use of such models in combination with optimization methods in addressing problems of environmental optimal design.

William G. Gray, PHD, is a Professor of Environmental Sciences and Engineering at the University of North Carolina at Chapel Hill. He has over thirty years of research and teaching experience in environmental modeling and the physics of flow in porous

media. He has published widely on various aspects of environmental modeling and simulation and has served as editor and on the editorial boards of leading journals in his field. He is a Fellow of the American Geophysical Union.

---

To purchase this product, please visit <https://www.wiley.com/en-us/9780470380802>