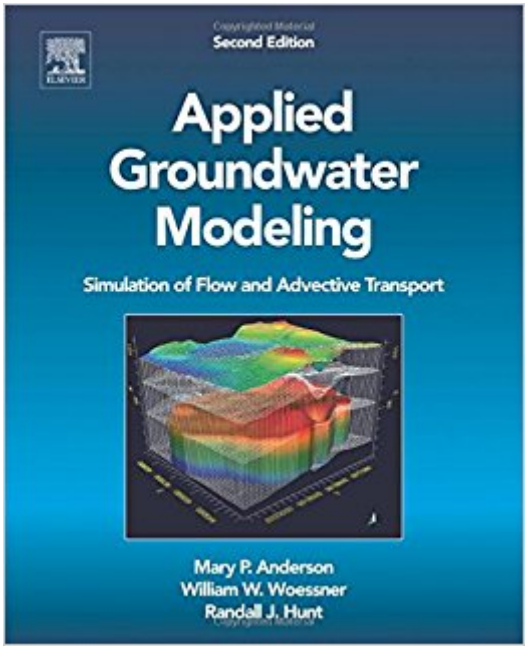
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# Applied Groundwater Modeling, Second Edition: Simulation Of Flow And Advective Transport




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## Synopsis

This second edition is extensively revised throughout with expanded discussion of modeling fundamentals and coverage of advances in model calibration and uncertainty analysis that are revolutionizing the science of groundwater modeling. The text is intended for undergraduate and graduate level courses in applied groundwater modeling and as a comprehensive reference for environmental consultants and scientists/engineers in industry and governmental agencies. Explains how to formulate a conceptual model of a groundwater system and translate it into a numerical modelDemonstrates how modeling concepts, including boundary conditions, are implemented in two groundwater flow codes-- MODFLOW (for finite differences) and FEFLOW (for finite elements)Discusses particle tracking methods and codes for flowpath analysis and advective transport of contaminantsSummarizes parameter estimation and uncertainty analysis approaches using the code PEST to illustrate how concepts are implementedDiscusses modeling ethics and preparation of the modeling reportIncludes Boxes that amplify and supplement topics covered in the textEach chapter presents lists of common modeling errors and problem sets that illustrate concepts

## Book Information

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## Customer Reviews

"The second edition of Applied Groundwater Modeling is a "must use" book in advanced undergraduate and graduate courses dealing with the practical application of groundwater models. It is also an outstanding reference book for professional groundwater scientists and engineers constructing models in the consulting, industrial, and governmental sectors." Scott Bair,

November-December issue of Groundwater

By Mary P. Anderson, and William W. Woessner

The previous version was from 1991 so I was recommended to buy the 2015 version. Since the previous version and this current version are over 20 years apart, the newer version has a lot more newer stuff in it (especially with the advent of computers with faster processors, GUI's, etc...yay Moore's Law). This is an amazing and well written textbook on the complex subject that is groundwater modeling. For anyone curious about groundwater modeling or getting in depth into it, I highly recommend this book. I got it for my groundwater modeling class for grad school.I am only giving it 4/5 stars because after a month several of the pages started falling out...despite the fact the textbook was bought brand new. I think there is something wrong with the binding. Whenever I open the book I hear small little cracking noises coming from the binding. Several of my class-mates who got the same book started noticing several of their pages were falling out too. If the publishers or authors of this book are reading this review, please fix this problem! Your book content is amazing but the book's structural integrity is failing!

A very comprehensive book for groundwater modelling. Excellent guide.

Good reference.

Outstanding text that covers the cutting edge of an important geohydrologic tool.

I kinda was hoping there was an updated version to the 1st edition after 1992. This is the best groundwater modeling book that could ever exist in history. The book worth thousand of dollars and Im so happy to have it finally.

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