

## saturated - unsaturated numerical simulation



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paperback. Book Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment. Paperback. Pages Number: 288 Publisher: China Water Power Press Pub. Date :2011-05 -01. saturated - unsaturated numerical simulation. Chapter 12. can always be divided into three parts. The first part describes the different forms of water movement equations and mathematical physics coupled process of surface water and groundwater. this section focuses in Chapter 1 are described. The second part of the different forms of water movement. described in detail several saturated. unsaturated water movement. solute transport equations of the finite difference method and finite element method numerical software. including: saturated groundwater flow numerical - MODFLOW, variable saturation flow numerical - VSF, saturated - unsaturated coupled numerical (MODFLOW-LIZF), variable density groundwater saturated unsaturated numerical - SUTRA. and describes several common parameter optimization methods and their mathematical principles. this section covers the first 2-6 chapters. The third part focuses on the application of different methods of numerical simulation examples in Chapter 7 to 12 conducted a detailed exposition. The book not only for water used in the literature of mathematical physics equation was specific discussion. but for different flow for numerical simulation method was specifically addressed. and gives application examples of the staff engaged in hydrology. is a useful tool for books and reference books. Contents: Preface Chapter 1 Introduction 1.1 basic equation of water movement in unsaturated water movement 1.2 1.3 saturated with the basic equation of the basic equations of groundwater movement becomes saturated flow 1.4 1.5 Navier-Stokes equations 1.6 river flood wave equation the basic equation of motion 1.7 overland flow exercise the basic hydrological processes coupled differential equations 1.8 Chapter 2 saturated groundwater flow numerical - MODFLOW2 .1 Introduction 2.2 Basic principles and methods of numerical...



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