



Mechanics of Groundwater in Porous Media

By Muhammad I. Haque

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Mechanics of Groundwater in Porous Media By Muhammad I. Haque

Provides a Balance between the Mathematical and Physical Aspects and the Engineering Applications

Written for engineering and science students, **Mechanics of Groundwater in Porous Media** explains groundwater from both a mathematical and qualitative standpoint. The book builds up the theory of groundwater flow starting from basic physics and geometric intuition, and on to applied practice through real-world engineering problems. It includes graphical illustrations as well as solved illustrative problems throughout the text.

Considers the Steady-State Motion of Groundwater

The book starts off by introducing the overall picture of groundwater, its relationship with the hydrological cycle, and other terminology used in the mechanics of groundwater flow through porous means. It presents a synopsis of basic definitions, concepts, and the fundamental principles of fluid mechanics and soil mechanics, which are necessary prerequisites for an adequate understanding of the book's core material. The engineering applications are deduced from geometric and physical reasoning, with a minimum use of mathematical abstraction.

Mechanics of Groundwater in Porous Media is written primarily to serve as a textbook for senior undergraduate and upper-level graduate students in civil and environmental engineering, environmental science, hydrogeology, and geology, as well as a resource for practicing engineers.

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Review

"This book will be a useful addition to the professional library of groundwater modellers and hydrogeologists. Its treatment of the mathematics and analysis of groundwater flow is clear and thorough, and it is invaluable in presenting the fundamentals of groundwater flow through porous media in a simple way."

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"I am pleased to know about the book. ... appears to have been written with a great care and was pleased to see a fresh description and illustration ... I found the presentation clear & lucid and also summarised some new points that are not found in related books in this subject."

?Sekhar Muddu, Indian Institute of Science, Bangalore

About the Author

Dr. M. I. Haque currently serves as the professor of engineering and applied science in the Department of Civil & Environmental Engineering at The George Washington University, where he teaches a course on groundwater and seepage. A recipient of graduate degrees in hydraulics and mechanics, he has spent over a period of four decades in research and practice involving water resources engineering, specializing in the field of computational hydraulics and structures, using the finite element method.

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