



# Mechanics of Groundwater in Porous Media

*Muhammad I. Haque*

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**Mechanics of Groundwater in Porous Media** 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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