

Filtration Materials for Groundwater: A Guide to Good Practice

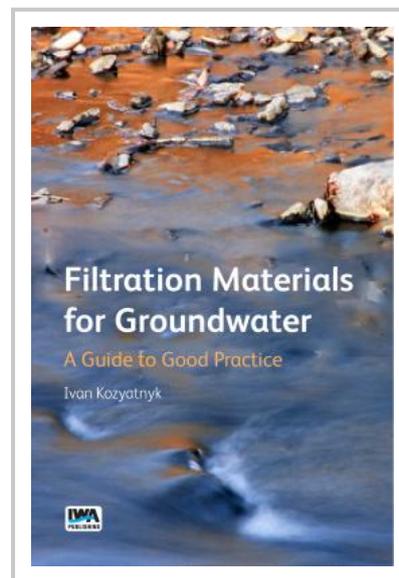
Editor(s): Ivan Kozyatnyk

Ground water is a source for drinking and industrial water supply and pollution created by active industrial sites which often cause social, health, and environmental problems. This groundwater eventually drains into adjacent water sources.

Filtration Materials for Groundwater: A Guide to Good Practice presents the up-to-date technology of purification of polluted ground water, its treatment for industrial and human needs and the remediation of polluted sites.

The book examines:

- Types of pollutants in ground water including the main inorganic and organic pollutants and their behaviour.
- Filtration materials for water treatment and principles of their choice. How to choose suitable filtration materials according to targeted compounds and estimate its efficiency.
- Technologies for ground water treatment.
- Cost and risks estimation of treatment facilities. Lifetime, risks and cost estimation of technology.
- Examples of modern ongoing facilities for ground water treatment and polluted sites remediation.



This book is of interest to scientists and engineer who deal with the problem of purification of ground water for different purposes and the remediation of polluted sites.

Contents:

Pollutants in Ground Water; Filtration Materials for Groundwater Treatment; Technologies for Ground Water; Pump-and-Treat Technology Treatment; Near-Well Subsurface Treatment Technologies for Sustainable Drinking Water Production; Cost and Risks Estimation of Treatment Facilities; Examples of Modern Ongoing Facilities for Ground Water Treatment and Polluted Sites Remediation; Constructed Wetlands for the Treatment of Petroleum Hydrocarbon Contaminated Groundwater – A Pilot Scale Study; Constructed Wetlands for Groundwater Remediation; Designs of Permeable Reactive Barriers and Examples of Full Scale Treatment; State of Art of Filtration for Public Water Supply in Brazil; Development in Groundwater Treatment - INDIAN Perspective

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