



MAKING GROUNDWATER UNDERSTANDABLE

## Online Platform for Groundwater Knowledge

Building the human capacity for sustainable development and management of groundwater.

# Books Published and Planned by the Groundwater Project

November 31, 2025

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## 1. Original Books Published by the Groundwater Project

(first book issued August 2020)

1. Groundwater in Our Water Cycle: Getting to Know the Earth's Most Important Freshwater Source. *E. Poeter, Y. Fan Reinfelder, J. Cherry, W. Wood, Doug Mackay (August 21, 2020)*
2. Hydrogeologic Properties of Earth Materials and Principles of Groundwater Flow: *B. Woessner, E. Poeter (August 21, 2020)*
3. Graphical Construction of Groundwater Flow Nets: *E. Poeter, P. Hsieh (August 21, 2020)*
4. Groundwater-Surface Water Exchange: *B. Woessner (October 4, 2020)*
5. Conceptual and Visual Understanding of Hydraulic Head and Groundwater Flow: *A. Cohen, J. Cherry (October 19, 2020)*
6. Groundwater Resources Development: Effects and Sustainability: *L. Konikow, J. Bredehoeft (October 27, 2020)*

7. Introduction to Isotopes and Environmental Tracers as Indicators of Groundwater Flow: *P. Cook (November 3, 2020)*
8. Groundwater Storage in Confined Aquifers: *H. Wang (November 10, 2020)*
9. Geologic Frameworks for Groundwater Flow Models: *JP Brandenburg (November 17, 2020)*
10. Groundwater Velocity: *R. Devlin (December 1, 2020)*
11. **Children's Book:** Wally and Deanna's Groundwater Adventures...: *L. Appleby, P. Russell, F. Restagno (2020)*
12. Hydrogeology and Mineral Resource Development: *L. Smith (March 24, 2021)*
13. Septic System Impacts on Groundwater Quality: *W. Robertson (May 11, 2021)*
14. Flux Equations for Gas Diffusion in Porous Media: *D. McWhorter (July 28, 2021)*
15. Land Subsidence and its Mitigation: *G. Gambolati, P. Teatini (August 11, 2021)*
16. Managed Aquifer Recharge: Southern Africa: *E. Braune and S. Israel (July 23, 2021)*
17. Groundwater Microbiology: *G. Ferris, N. Szponar, B. Edward (September 28, 2021)*
18. A Conceptual Overview of Surface and Near-Surface Brines and Evaporite Minerals: *W. Wood (December 14, 2021)*
19. Fluoride in Groundwater: *K. Nordstrom, P. Smedley (December 22, 2021)*
20. Electrical Imaging for Hydrogeology: *K. Singha, F. Day-Lewis, T. Johnson, L. Slater (December 14, 2021)*
21. Domestic Wells, Introduction and Overview: *J. Drage (March 3, 2022)*
22. Water Well Record Databases and Their Uses: *G. Kennedy (March 3, 2022)*
23. Introduction to Karst: *E. Kuniansky, C.J. Taylor, J. H. Williams, F. Paillet (May 6, 2022)*
24. Variable Density Groundwater Flow: *V.E.A. Post, C.T. Simmons (June 2, 2022)*
25. Large Aquifer Systems Around the World: *J. van der Gun (July 17, 2022)*
26. Distributed Fiber-Optic Hydrogeophysics: *S.W. Tyler, J.S. Selker, N. van de Giesen, T. Bogaard, J. Aguilar-López (July 17, 2022)*
27. **Children's Book:** Claire and the Invisible Water: *L. Cordeiro de Souza, M. Ribeiro (August 9, 2022)*
28. Dissolved Organic Carbon in Groundwater Systems: *F. Chapelle (August 29, 2022)*
29. The Edwards Aquifer: *J. Sharp, R. Green (September 11, 2022)*
30. Stable Isotope Hydrology: *R. Diamond (December 8, 2022)*
31. Fractures and Faults in Sandstone and Sandstone-Shale/Mudstone Sequences and Their Impact on Groundwater: *A. Aydin, R. Ahmadov, M. Antonellini, J. Cherry, A. Cilona, E. Flodin, G. de Joussineau, B. Parker, J. Zhong (January 2023)*
32. Groundwater in Peat and Peatlands: *J. Price, C. McCarter, W. Quinton (February 2023)*
33. Structural Geology Applied to Fractured Aquifer Characterization - *Amélia João Fernandes, Alain Rouleau, Eurípedes do Amaral Vargas Junior (April 2023)*
34. Groundwater Quality and Examples of Risk Procedures: *E. McBean (June 2023)*
35. Groundwater and Hydrothermal Ore Deposits: *M. Appold and G. Garven (July 2023)*
36. Colloid (Nano- and Micro-Particle) Transport and Surface Interaction in Groundwater: *W. Johnson, E. Pazmino (August 2023)*
37. Groundwater and Petroleum: *Y. Kharaka, B. Hitchon, J. Hanor (August 2023)*
38. Urban Groundwater: *K. Howard (September 2023)*
39. An Introduction to Hydraulic Testing in Hydrogeology: Basic Pumping, Slug, and Packer Methods: *W. Woessner, A.C. Stringer, and E. Poeter (September 2023)*

40. A Glossary of Hydrogeology: *J. Sharp (October 2023)*
41. Geophysical Logging for Hydrogeology: *J. Williams and F. Paillet (November 2023)*
42. Getting Started with MODFLOW: *R. Winston (November 2023)*
43. Introduction to Fluid Mechanics for Groundwater Scientists: *H. Klammler (November 2023)*
44. Biotic Transformations of Organic Contaminants: *B. Rittmann (Published December 2023)*
45. History and Hydraulics of Flowing Wells: *J. Xiaowei, J. Cherry (Published January 2024)*
46. Cross-Border Impacts Related to Transboundary Aquifers: Characterizing Legal Responsibility and Liability: *G. Eckstein (January 2024)*
47. Age Dating Young Groundwater: *K. Solomon, T. Gilmore (Published February 2024)*
48. The Elmvale Groundwater Observatory: *B. Shotyk et al. (March 2024)*
49. Darcy's Law in Variable Density Groundwater Systems: *F. Marinelli (May 2024)*
50. Properties of Organic Contaminants: *D. Mackay, R. Allen-King, W. Rixey (May 2024)*
51. Karst Environment and Management of Aquifers: *Z. Stevanovic, J. Gunn, N. Goldscheider, N. Ravbar (June 2024)*
52. Identifying International Legal Trends for Managing Transboundary Groundwater Resources: *G. Eckstein (July 2024)*
53. Flow and Distribution of Non-aqueous Phase Liquids: *K. Mumford, B. Kueper, R. Lenhard (October 2024)*
54. Public Health Risk Assessment and Risk Management for Groundwater to Ensure a Safe Drinking Water Supply: *S. Hrudey (November 2024)*
55. Hydrogeology of the Pannonian Basin: *I. Almási and J. Szanyi (December 2024)*
56. Basic Hydrogeology: An Introduction to the Fundamentals of Groundwater Science: *M. Uliana (January 2025)*
57. Hydrogeochemistry - A Journey of Discovery: *W. Wood (February 2025)*
58. Hydrogeology and Geochemistry of Bottled Spring Waters in the United States: *F. Chapelle (February 2025)*
59. Quantification of Groundwater Recharge: *P. Cook and P. Brunner (May 2025)*
60. Using Groundwater Head Maps: *L. Toran (June 2025)*
61. Practical Groundwater Tracing with Fluorescent Dyes: *T. Aley, T. Osorno, R. Devlin (June 2025)*
62. Estimating the release date of MTBE-containing fuel at a service station site: A case study: *Doug Mackay (July 2025)*
63. Modern Subsurface Contaminant Hydrology: *T. Sale, J. Scalia (September 2025)*
64. Conjunctive Water Management: *R. Evans, R. Hanson (September 2025)*

## 2. Final Review Process – Publication Next

1. Hydrogeology of the Oak Ridges Moraine Aquifer System, South-Central, Ontario, Canada: *R. Gerber, D. Sharpe, S. Holysh, M. Marchildon, M. Doughty, S. Frape, L. Labelle, B. Smith, S. Shikaze*
2. Monitoring Requirements for Unbiased Visualization of Groundwater Data: *D. Larssen, B. Black, F. Patton*
3. Groundwater Recharge and Discharge: *D. Allen*
4. Hazardous Karst: *L. VanRooy and M. Dippenaar*

5. Best Management Practices for Domestic Well Owners: *Kristine Uhlman*
6. Groundwater Pollution by Landfills: *F. Lee, A. Jones-Lee*
7. Prediction of Groundwater Sustainability and Land Subsidence in the Toluca Aquifer System, Mexico: *J. Garfias Soliz, R. Martel, A. Calderhead, P. Castellazzi*
8. An Interactive Physical Three-dimensional Water Table Model Teaching Tool: *W. Woessner, B. Covitt, W. P. Gardner*
9. Impacts of Upstream Oil and Gas Production: *R. Jackson, R. Walsh, M. Dusseault, M. Kang*

### 3. In Revision by Author

10. Groundwater Governance: *K. Pietersen*
11. Transboundary Groundwater Management in the Mackenzie River Basin, Canada: *R. Pentland*
12. Introduction to Groundwater and Aquifers: *I. Kalwij, J. Cherry*
13. Sobreexplotación y Sustentabilidad del Agua Subterránea en el Acuífero del Valle de Toluca: *J. Garfias Soliz, L. Bibiano Cruz, R. Martel, D. Rudolph*
14. Hidrogeología y recursos de agua subterránea en formaciones e islas volcánicas: HIRAVOL (Hydrogeology and groundwater resources in volcanic formations and islands): *E. Custodio* (Approved and forthcoming in Spanish first) (Published by CETAQUA Barcelona, 2020)
15. **Children's Book:** The Water Cycle: *M. Schirmer, C. Fandel, T. Ferre*

### 4. Full Drafts in Peer Review

16. Assessment of Hydrogeologic Knowledge: Multiple Choice Questions with Answers: *N. Adimalla*
17. Multilevel Groundwater Characterization & Monitoring with the Westbay System: *B. Black, D. Larssen, F. Patton*
18. Applied hydrogeology - 10 condensed case studies: *M. Sklash*
19. Conceptual Hydrogeological Models: *F. Baechler*
20. Analytical Hydrogeology - A Compilation of Analytical Solutions: *R. Chesnaux*

### 5. Drafts Arrived and Being Prepared for Peer Review

21. Groundwater and Lakes: *D. Rosenberry*
22. Discharge and Groundwater Dependent Ecosystems: *M. Laroque, E. Rosa*
23. Domestic Well Basics for the Well Owner: *H. Simpson, S. Longboat, H. Murphy, J. Levison*
24. Catastrophic Recharging of a Dormant Aquifer Following an Infrastructure Failure: *R. Newbury*
25. When and How to Do 3-D Analyses for Groundwater Investigations: *K. Quinn and S. Sellwood*

### 6. Drafts with Unique Situations

26. Groundwater and Bottled Water: *J. Weaver and P. Lachassagne*
27. Groundwater Need and Land Subsidence in the Beijing Plain: A Problem Still Ongoing: *L. Zhu, P. Teatini, H. Gong, L. Guo, Y. Luo*

## 7. Drafts Likely to Arrive in 2026

28. Vadose Zone: *G. Parkin, E. Cey*
29. Groundwater: The Rise and Fall of Civilizations: *F. Chapelle*
30. Capture of Groundwater by Wells: *J. L. Wilson*
31. Hydrogeological and Hydrogeochemical Factors in the Occurrence of Natural Arsenic:  
*P. Ravenscroft, O. Stracek*
32. Gravity driven flow systems: *J. Xiaowei*
33. Interpretation of Pumping Tests and Other Indicators of Aquifer-Aquitard System  
Properties: *G. van der Kamp, C. Neville*
34. Student Activities with Groundwater Flow: *D. Lee*
35. An Introduction to Water Flow and Solute Transport in Groundwater and the Vadose Zone: *T. Ferre*
36. Groundwater in Hillslope and Catchment Processes: *I. van Meerveld, Y. Reinfelder*
37. Heat and Temperature in Groundwater: *V. Bense, B. Kurlyk, G. Ferguson*
38. Molecular Diffusion in Saturated Porous Geological Media: Theory and Applications:  
*P. Wanner, B. Parker, and team*
39. PFAS in Groundwater: *G. Carey*
40. Analytical Groundwater Modeling: Theory and Applications Using Python: *V. Post and M. Bakker*
41. Introduction to Modeling: *B. Woessner, E. Kuniansky, E. Poeter*
42. Effective Groundwater Model Calibration: With Analysis of Data, Sensitivities,  
Predictions, and Uncertainty: *M. Hill, C. Tiedmen, E. Poeter*
43. Effective Groundwater Model Calibration: With Analysis of Data, Sensitivities,  
Predictions, and Uncertainty Primer: *M. Hill, C. Tiedmen, E. Poeter*
44. Climate Water Project: *A. Lo*
45. Nature of contaminant plumes in strongly heterogeneous granular media: *G. Fogg*
46. Tree Analysis to Track Groundwater Contamination: *J. Burken*
47. Fundamental Theory of Solute Transport in Heterogeneous Porous Media: *P. Kitanidis*
48. An Introduction to Chemical Hydrogeology: *D. Allen*
49. Groundwater and Climate Change: *D. Allen, J. Levison*
50. Introduction to Mountain Hydrogeology: *M. Hayashi and Team*
51. Hydrogeology of Springs: *L. Stevens and Team*
52. Geological CO<sub>2</sub> Storage in Saline Aquifers: *S. Mishra, A. Haagsmaa, M. Kelley, A. Datta-Gupta, C. Jenkins*
53. Gravity Driven Groundwater Flow Systems – Mexico Perspective: *Y.A. Russell, John Cherry, J.J.C Rivera*
54. Contaminated Site Hydrogeology Inferred from Holocene Sediment Deposition History: Case  
Study: *S. Moran and team*
55. Agrichemical Facility, Cambridge, ON, 30 Year Case Study: *R. Carter*
56. Coastal Hydrogeology: *V. Post, JJ Jiao*
57. Springs of Nova Scotia: *F. Baechler*
58. Heterogeneity and Anisotropy: *G. Weissman*

59. China's National Groundwater Monitoring Network: *L. Wenping*
60. Groundwater and Tunnels: *H. Rocha, W. Bilfinger*
61. Slope Stability and Landslides: *J. Jiao and team*
62. Mexico Valley Aquifer: *A. Rivera*
63. Clayey aquitards, the cases of two closed basin aquitards: Mexico City and the La Laguna Region in northern Mexico: *A. Ortega*
64. Land subsidence in Japan: *T. Tokunaga and T. Endo*
65. Application of Sequence Stratigraphy in Hydrogeology - Concepts: *J. Sadeque and R. Samuels, B. Campanaro*
66. Experiences of Learning and Struggling against Land Subsidence in Shanghai Over a Century from 1921 to 2020: *S. Ye, X. Yan*
67. Groundwater and Soil Salinity: *I. Cartwright*
68. Establishing Wellhead Protection Areas: *P. Martin and team*
69. Oak Ridges Moraine Data Management System: *S. Holysh, R. Gerber, S. Shikaze*
70. Groundwater Management in Orange County, USA: *R. Herndon*
71. Groundwater in Responsible Mining: *W. Timms*
72. Rock fracture survey and characterization applied to hydrogeology: *A. Rouleau, A. Fernandes, R. Morin*
73. Transport and Fate of Organic Compounds in Groundwater: A Primer: *T. Soerens*
74. Field Methods: *L. VanRooy and M. Dippenaar*
75. Principles of Groundwater Geochemistry: *T. Al, U. Mayer*
76. The Underground Water: The Global Unexpected Land and Sea Invisible Connectivity: *I.N. Flores, V.E.A. Fuentes*
77. The Theory of Slug Tests: *C. Neville*
78. Straddle Packer Tests in Fractured Rock: *P. Quinn*
79. Hydrogeoethics: A Primer: *M. Abrunhosa*
80. Social Hydrogeology: *V. Re*
81. Viruses in Groundwater from a Well Sampling Perspective: *K. Bradbury and M. Borchardt*
82. Geochemistry of Nitrogen: *K. Soderberg, S. Macko, L. Wang*
83. Contamination of Karst in the United States: *E. Kuniansky*
84. A European Union Perspective on Groundwater Governance: *J. Fried*
85. Desert Hydrogeology Overview: *X. Wang, J. Jiao*
86. Physical Hydrograph Analysis: *A. Kovacs*
87. Understanding Math in Groundwater Science: *F. Marinelli, H. Klammler, R. Devlin*
88. Karst: *T. Scheytt*
89. Quantitative Hydrogeochemistry: *U. Mayer and H. Prommer*
90. Hydrogeochemistry and Investigation of Mine Waters: *R. Bowell, M. Leybourne*
91. Carbon-14 as a Tool in Hydrogeology: *L. Wassenaar*
92. Constructing and Understanding Basic Groundwater Transport and Reaction Equations: *H. Klammler*



93. Springs in Basalt: Insights from Tracer Tests: *N. Farmer, D. Blew*
94. Hydrogeology of Sapolite: *L. McKay and team*
95. Ground-penetrating radar: *C. Steelman*
96. Electromagnetic induction: *S. Kang, L. Heagy, D. Oldenburg*
97. Hyporheic Zone: *A. Sawyer*
98. Free Phase Gases in Groundwater: *C. Ryan, J. Roy*
99. Exploration, Development and Management of Groundwater in Basalts: *A. Lalwani*
100. Aquifer Test Analysis Without Computers: *D. St. Germain, K. Goldstein*
101. Groundwater and Wildfires: *M. Ximena Guzman Rojo*
102. Writing Readable Hydrogeology Reports: *M. Sklash*
103. Fractured Rock Pumping Test Analysis: *F.L. Guerrero*
104. Managed Aquifer Recharge Using Treated Sewage: *J. Carrera*
105. Modern Groundwater Dynamics, Subsurface CO<sub>2</sub> Disposal, and their Effect on Climate Change: *Udo Weyer*
106. Fractures and Faults in Carbonates: Limestone, Dolostone and Chalk and Their Impacts on Groundwater: *F. Agosta, M. Antonellini*
107. Groundwater Flooding: *G. Parkin*
108. History of Hydrogeology, Canada: *R. Jackson, G. van der Kamp, H. Maathuis*
109. History of Hydrogeology, South Africa: *R. Meyer and E. Wyk, R. Kleywecht*
110. Chaotic Advection: *N. Thomson*
111. Groundwater and the Circular Economy: *I. Stewart, D. Mulhall, R. Hanson, J. Cherry*
112. Groundwater, An Enigmatic Portion of the Carbon Cycle: *W. Wood; J. Cherry*
113. Multilevel Groundwater Monitoring Systems: Technologies: *J. Cherry, B. Parker, S. Chapman*
114. Till Aquitards: *J. Fredericia, K. Klint, B. Nilsson*
115. Karst Case Study in Italy: *M. Petitta*
116. Geochemical Modelling: *C. Zhu*
117. Groundwater and Arsenic: *P. Bhattacharya, A. Mukherjee*
118. Flow and Transport in Fractured Rock: *K. Novakowski, S. Wright*
119. Groundwater as the Solution to Rural Water Poverty: *J. Cherry, P. Bauman others*
120. Long distance tracer tests for understanding groundwater flow in basalts: *N. Farmer, D. Blew*
121. Nature and Importance of Reaction Interfaces and Zones: *J. Spain, J. Cherry*
122. Methods to characterize subsurface media at the grain scale: *D. Mackay*
123. Soil Hydrology and Biophysics: *J. Selker and D. Or*
124. Redox Indicators and Processes: *R. Jakobsen, R. Jackson*
125. Hydrogeochemical Considerations in Mining: *M. Logsdon*
126. Guarani Aquifer System: Brazil, Argentina, Paraguay, Uruguay: *R. Kircheim*
127. Adaptive Management: *A. Rabideau*

128. Groundwater as a Component of the Global Water Crisis: *S. Erfurth, J. Cherry, B. Parker*
129. Dashboards and Low-Cost Sensors: *J. Drage, G. Fogg and A. Wickert*
130. Remediation Approaches and Methods: *N. Thomson, C. Divine*
131. Contaminant Mass Flux/Discharge: *M. Einarson, G. Carey*
132. Techniques and Practical Considerations for Groundwater Development: *I. Kalwij and J. Cherry*
133. Self-potential: *D. Jougnot, E. Voytek, K. Singha*
134. Use of Domestic Wells for Groundwater Monitoring and Research: *S. Hamilton*
135. Dissolved Gases in Groundwater: *G. Wang, F. Lui, C. Cravotta, D. Vesper*
136. Karoo Aquifer, South Africa: *E. Lukas, F. DeLange*
137. The Ogallala Aquifer: *R. Stotler*
138. Well Yield: *P. Gray*
139. Permafrost Overview: *M. Walvoord, B. Kurlyk and others*
140. Strontium Isotopes: *I. Clark, C. Bataille*
141. Optimization Approaches: *D. Ahfeld*
142. Pesticide Contamination of Groundwater in Agricultural Areas of Tropical Regions: *C. Spadotto, E. Does, R. Mingoti*
143. Superfund Investigation in Basalt, Soda Springs, Idaho 2018: *M. Einarson*
144. Hydrogeology for Alpine Mine Environmental Assessments: *R. Blair*
145. The Value of Restoring Groundwater: *A. Rabideau*
146. The Western Carolina Hydrological Field Research Station: an on-campus site to support-research based experiential learning for undergraduates and promote interdisciplinary connections: *Mark Lord and David Kinner*
147. Phytoremediation: *D. Tsao*
148. Groundwater Resources in China: *L. Yu*
149. Application to of Sequence Stratigraphy for the Environmental Industry: Coastal & Shallow Marine Environments: *J. Sadeque and R. Samuels, B. Campanaro*
150. Application to of Sequence Stratigraphy for the Environmental Industry: Continental Environments: *J. Sadeque and R. Samuels, B. Campanaro*
151. The Subsurface as an Energy Source: *M. Dusseault and J. Raymond*
152. The role of groundwater in earthquakes: natural and human influence: *S. Ge*
153. Insights from MADE Site Experiments: *C. Zheng*
154. Sketching as a path to enhance 3-D thinking in hydrogeology: *C. Fandel*
155. Karst Hydrogeochemistry: *K. Knierim*
156. Understanding Why Water Levels in Wells Change with Time: *J. Kennel*
157. Groundwater and Indoor Air: *T. McAlary*
158. Quaternary Aquitards: *F. Larsen and Team*
159. Glacial Geology and Groundwater: *H. Russell, M. Hinton, D. Sharpe*
160. Groundwater Engineering: Design and Modelling: *S. Thomas*



161. Nuclear magnetic resonance: *K. Keating*
162. Seismic: *J. Hayes, B. Flinchum*
163. Airborne Methods: *B. Minsley*
164. Rock physics: *F. Nguyen*
165. Joint inversion: *E. Oware*
166. Compound Specific Isotope Analyses (CSIA): *P. Bennett and team*
167. Groundwater Concepts for Children: *P. Bennett and team*
168. Gravity Driven Groundwater Flow Systems – Mexico Perspective: *Y.A. Russell, John Cherry, J.J.C Rivera*
169. Nitrate in Groundwater – State of Sao Paulo, Brazil: *C. Varnier, J. Luiz Albuquerque Filho, R. Hirata*
170. Analytical Methods for Identifying and Quantifying Organic Chemicals: *R. Rago*
171. Colorado River Basin: *A. Rivera*
172. Time Scale Connection of Groundwater with Adjacent Sphere: *M. Tanigouchi*
173. Groundwater and Submarine Discharge: *G. Destouni*
174. Hydrogeology of Springs: *L. Stevens and Team*
175. Hong Kong Urban Hydrogeologic Processes: *JJ Jiao*
176. Hydrogeosphere simulations: Insights about Catchment Responses: *A. Brookfield and team*
177. The State of the Planet from a Groundwater Perspective: *J. Cherry and Team*
178. Domestic Well Regulation and Risk Management: *W. Lusk*
179. Trans-boundary aquifers: Issues and Management: *R. Hirata, S. Foster, A. Suhogusoff*
180. Hydrogeology and Tunnels: *J. Raymer, H. Asche*
181. Slope Stability: *M. Fredlund*
182. HKU Multi-depth Monitoring System: *J.J. Jiao, J. Cherry*
183. China's Deep Geological Repository for Nuclear Waste – Concept and Progress Report: *J. Wang*
184. Groundwater Contamination in China: *F. Liu book and others*
185. The Sponge City Concept from a Hydrological Perspective: *J. Jiao and others*
186. Geology and Isotopes in Groundwater: Revealing flow paths, background geochemistry, and contamination processes in Córdoba, Argentine Pampas Region: *M. Blarasin, A. Cabrera, F. Becher Quinodoz, and E. Matteoda*
187. What Your Attorney/client wants to see in reports from hydrogeologists: *M. Sklash*
188. Making the invisible visible: *L.S. Andersen*
189. Class Guide: Sediments, Landforms and the Pleistocene: *L. Clayton and others*
190. Radioactive Waste Management: *S. Sterling, M. Hobbs*
191. Redox: *K. Nordstrom*
192. Wood chips and Groundwater: *W. Robertson*
193. Springs in China: *Dongmei Han*

## 8. Teams Being Developed

194. Dual Rotary Drilling of Deep-Water Wells: *Team Being Developed*
  195. How to Teach Students Integrative Thinking: *Team Being Developed*
  196. Drill Water Wells by Conventional Percussion Drilling: *Team Being Developed*
  197. Origins and Characteristics of Hydrogeochemical/Biogeochemical Reaction Zones: *Team Being Developed*
  198. Sea water intrusion: *Team Being Developed*
  199. Introduction to Hydrogeochemistry: *Team Being Developed*
  200. Introduction to Groundwater Geology: *Team Being Developed*
  201. Rainwater Harvesting in Developing Countries from a Hydrogeological Perspective: *Team Being Developed*
  202. Gravity Drive Flow Systems: *Team Being Developed*
  203. Manual and Lowest Cost Engine Drilling of Water Wells in Developing Countries: *Team Being Developed*
  204. Groundwater and Wetlands: *Team Being Developed*
  205. Atolls and Small Islands: *Team Being Developed*
  206. Groundwater and Glaciers: *Team Being Developed*
  207. Managed Aquifer Recharge: Concepts and Processes: *Team Being Developed*
  208. Groundwater Under the Direct Influence of Surface Water (GUDISW): *Team Being Developed*
  209. Domestic Wells in Fractured Rock and their Vulnerability to Contamination: *Team Being Developed*
  210. Hydrogeological and Hydrogeochemical Factors in the Occurrence of Natural Manganese: *Team Being Developed*
  211. Radium and Uranium in groundwater: natural occurrence and geochemistry: *Team Being Developed*
  212. Geochemical Aspects of Groundwater Related Mining, including a synthetic case study: *Team Being Developed*
  213. Basalt hydrogeology: Central America: *Team Being Developed*
- And many more...*

## 9. Exemplary old textbooks and government publications – Republished online by the Groundwater Project

1. Groundwater: A. Freeze and J. Cherry (Published by Pearson, 1979)
2. Dense Chlorinated Solvents and other DNAPLs in Groundwater: J. Pankow and J. Cherry (Published by Waterloo Press, 1996)
3. Analysis and Evaluation of Pumping Test Data: G.P. Kruseman, N.A. de Rigger, and J.M. Verweij (Published by International Institute for Land Reclamation and Improvement, 2000)
4. Mechanics of Immiscible Fluids in Porous Media: A. Corey (Published by Water Resources Publications, 1986)
5. Groundwater Hydrology and Well Hydraulics: D. McWhorter and D. Sunada (Published by Water Resources Publications, 2010)
6. An Illustrated Handbook of LNAPL Transport and Fate in the Subsurface: CL:AIRE (Published by CL:AIRE, 2014)
7. Petroleum Hydrocarbons in Groundwater: Guidance on Assessing Petroleum Hydrocarbons using existing hydrogeological risk assessment methodologies: CL:AIRE (Published by CL:AIRE, 2017)

8. Processes controlling the natural attenuation of fuel hydrocarbons and MTBE in the UK Chalk Aquifer: *CL:AIRE (Published by CL:AIRE, 2006)*
9. Contaminant Transport Through Aquitards: A State of the Science Review: *J.A. Cherry, B.L. Parker, K.R. Bradbury, T.T. Eaton, M.B. Gotkowitz, D.J. Hart, M.A. Borchardt (Published by The Water Research Foundation, 2006)*
10. Contaminant Transport Through Aquitards: Technical Guidance for Aquitard Assessment: *K.R. Bradbury, M.B. Gotkowitz, D.J. Hart, T.T. Eaton, J.A. Cherry, B.L. Parker, M.A. Borchardt (Published by The Water Research Foundation, 2006)*
11. Transient Ground Water Hydraulics: *R. Glover (Published by Water Resources Publications, 1985)*
12. Geochemistry of Natural Waters, The: Surface and Groundwater Environments, 3rd Edition: *James I. Drever (Published by Pearson, 1997)*
13. Seeing the Invisible: A Strategic Report on Groundwater Quality: *P. Ravenscroft, L. Lytton (Published by World Bank, 2022)*
14. Practical Manual on Groundwater Quality Monitoring: *P. Ravenscroft, L. Lytton (Published by World Bank, 2022)*
15. Quantitative Hydrogeology: Groundwater Hydrology for Engineers: *G. De Marsily (Published by Academic Press, 1986)*
16. A Guide to Regional Groundwater Flow in Fractured Rock Aquifers: *P. Cook (CSIRO, 2003)*
17. The hidden wealth of nations: the economy of groundwater in an era of climate change *(World Bank, 2023)*
18. Arsenic Pollution: *P. Ravenscroft, H. Brammer, K. Richard (Wiley Blackwell, 2009)*
19. Vadose Zone Monitoring for Hazardous Waste Sites: *L.G. Everett, L.G. Wilson, E.W. Hoylman*
20. Hydrogeologic Characterization of Fractured Rock Formations: *A.J.B. Cohen (1993)*
21. Guidance on the Assessment and Monitoring of Natural Attenuation of Contaminants in Groundwater: *CL:AIRE (Published by CL:AIRE, 2024)*
22. Guidance on Natural Source Zone Depletion: *CL:AIRE (Published by CL:AIRE, 2024)*
23. Groundwater Pollution: *Jean Fried (Published by Elsevier Science Ltd, 1975)*
24. The Hyporheic Handbook: A handbook on the groundwater–surface water interface and hyporheic zone for environment managers: *Published by the Environment Agency, 2009.*
25. Canada’s Groundwater Resources: *A. Rivera (Fitzhenry & Whiteside, 2014)*
26. Design, Operation, and Maintenance for Sustainable underground Storage Facilities Cover: *AWWA Research Foundation (2008)*
27. Applied Research Groundwater Contaminant Transport at Rocky Mountain Arsenal: *B. Myller, G. Bianchi-Mosquera, B. Honeyman, D. Mackay (R.L. Stollar & Associates Inc., 1992)*
28. The Worldwide Adventures of Droppy: *G. Houben (BGR, 2012)*
29. The Incredible Adventures of Water and his Friends: *V. Wits, K. Swanepoel, A. Beyers, C. Lohe, M. Quinger (BGR, 2016)*
30. Environmental Geology: *S. Earle (Thomson Rivers University, 2021)*
31. Making Water Everyone’s Business: *Anil Agarwal, Sunita Narain, Indira Khurana (CSE India, 2001)*
32. Basic Ground-Water Hydrology: *R.C. Heath (USGS, 1981)*
33. Definitions of Selected Ground-Water Terms—Revisions and Conceptual Refinements: *S. W. Lohman and others — Committee on Redefinition of Ground-Water Terms: R. R. Bennett, R. H. Brown, H. H. Cooper, Jr., W. J. Drescher, J. G. Ferris, A. I. Johnson, S. W. Lohman (chairman beginning June 1968), C. L. McGuinness, H. M. Piper (chairman from 1965 until retirement in 1968), M. I. Rorabaugh, R. W. Stallman, C. V. Theis. (USGS, 1972)*
34. Ground Water and Surface Water: A Single Resource: *T. C. Winter, J. W. Harvey, O. L., Franke, W. M. Alley (USGS, 1999)*
35. Guidelines for Evaluating Ground-Water Flow Models: *T. E. Reilly, A.W. Harbaugh (USGS, 2004)*
36. Introduction to Ground-Water Hydraulics—A Programed Text for Self-Instruction: *G. D. Bennett (USGS, 1989)*

37. System and Boundary Conceptualization in Ground-Water Flow Simulation: *Thomas E. Reilly*  
(USGS, 2001)

## 10. Translations of Groundwater Project Books - Published to Date

*An Introduction to Hydraulic Testing in Hydrogeology: William W. Woessner, A. Campbell Stringer and Eileen P. Poeter*  
**Spanish** by Fernando Lara

*Biotic Transformations of Organic Contaminants: Bruce E. Rittmann*  
**Spanish** by Luisa Fernanda Cardona Cordoba

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**Tagalog** by Ashemir B. Velasco  
**Turkish** by Dr. Mustafa Afşin and Dr. Öğretim Üyesi Bilâl Afşin  
**Portuguese** original publication by Luciana Cordeiro do Souza (story) & Marcos Ribeiro (illustrations)

*Colloid (Nano- and Micro-Particle) Transport and Surface Interaction in Groundwater: William P. Johnson and Eddy F. Pazmiño*  
**Chinese** by Wei Zhang

*Conceptual and Visual Understanding of Hydraulic Head and Groundwater Flow: Andrew J.B. Cohen and John A. Cherry*  
**Bahasa Indonesia** by Steven Reinaldo Rusli  
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*Cross-Border Impacts Related to Transboundary Aquifers: Gabriel Eckstein and Yoram Eckstein*  
**Portuguese** by Pilar Carolina Villar  
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*Dense Chlorinated Solvents and Other DNAPL in Groundwater: James F. Pankow and John A. Cherry*  
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**Italian** by Viviana Re, Paolo Cerutti, Stefano Viaroli, Michele Lancia, Corrado Camera, Daniela Valigi, Stefania Stevenazzi, Emma Petrella, Luisa Stellato, Andrea Zanini, Diego Di Curzio, Stefania Da Pelo, Giovanna De Filippis, Mauro Giudici, Eloisa Di Sipio, Nicolò Colombani, Micòl Mastrocicco, Nico Dalla Libera, Filippo Torresan, Daniele Pedretti, Rinaldo Genevois and Marco Pola

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**Turkish** by Kâmil Kayabali

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*Groundwater in the Water Cycle: Getting to Know the Earth's Most Important Freshwater Source: Eileen Poeter, Ying Fan Reinfelder, John Cherry, Warren Wood, Doug Mackay*

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**Portuguese** by Sueli Yoshinaga

*Groundwater Velocity: J.F. Devlin*

**Spanish** by Jorge Zafra Córdova



*History and Hydraulics of Flowing Wells: Xiao-wei Jiang, John Cherry*  
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*Introduction to Isotopes and Environmental Tracers as Indicators of Groundwater Flow: Peter Cook*  
**Greek** by Konstantinos Voudouris

*Land Subsidence and its Mitigation: Giuseppe Gambolati, Pietro Teatini*  
**Farsi** by Naser Rafighi Oskuie and Masoud Saeedi

*Managed Aquifer Recharge: Eberhard Braune, Sumaya Israel*  
**Spanish** by J. Alberto Casillas-Trasviña, Maria Loreto Encalada, Pamela Garay, Pablo Guerrero, Alfredo Huamani, Juan Bautista Reyna Martínez, Joaquin Riquelme, Susana Torres & Lei Zhong

*Septic System Impacts on Groundwater Quality: William Robertson*  
**Arabic** by Khalil Ibrahim Al-Samarrai  
**Farsi/Persian** by Mohammad Hossein Aref  
**Portuguese** by Thais de Paula  
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*Water Well Record Databases and Their Uses: Gavin Kennedy*  
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**Urdu** by Muqaddas Tariq  
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*A Conceptual Overview of Surface and Near Surface Brines and Evaporite Minerals: Warren W. Wood*

**Spanish** by Beatriz Moreno  
**Arabic** by Khalil Ibrahim Al Samarrai  
**Portuguese** by Ryan Andrade

*Age Dating Young Groundwater: Kip Solomon and Troy Gilmore*

**French** by Alidou Habirou  
**Spanish** by Juan Camacho

*Basic Hydrogeology: Matthew M. Uliana*

**Spanish** by Aideé Arvizu-Schlemper  
**French** by Dr. Omer Lasme & Ibtissem Yahyaoui

*Biotic Transformations of Organic Contaminants: Bruce E. Rittmann*

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*Claire and the Invisible Water: Luciana Cordeiro de Souza Fernandes*

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*Colloid (Nano- and Micro-Particle) Transport and Surface Interaction in Groundwater: William P. Johnson and Eddy F. Pazmiño*

**Spanish** by Eddy Pazmiño and Luisa Casadiegos Agudelo

*Conceptual and Visual Understanding of Hydraulic Head and Groundwater Flow: Andrew J.B. Cohen and John A. Cherry*

**Bengali** by Ismail Hussain  
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**Spanish** by Guillermo Luque  
**Turkish** by Sebnem Arslan and Melis Somay  
**Vietnamese** by Hai vu

*Conjunctive Water Management: Richard S. Evan and Randall T. Hanson*

**Spanish** by Tomas Israel Grijalva Rodríguez

*Darcy's Law in Variable Density Groundwater Systems: Fred Marinelli*

**Farsi** by Neda Rahimpour

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*Dense Chlorinated Solvents and Other DNAPL in Groundwater: James F. Pankow and John A. Cherry*

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*Dissolved Organic Carbon in Groundwater Systems: Francis H. Chapelle*

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*Domestic Wells – Introduction and Overview: John Drage*

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*Fluoride in Groundwater: D. Kirk Nordstrom and Pauline L. Smedley*

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*Flow and Distribution of Non-aqueous Phase Liquids: Kevin Mumford, Bernard Kueper, Robert Lenhard*

**Spanish** by Jorge Quispe Ríos

*Flux Equations for Gas Diffusion in Porous Media: David B. McWhorter*

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*Fractures and Faults in Sandstone and Sandstone-Shale/Mudstone Sequences and Their Impact on Groundwater: Atilla Aydin, Ramil Ahmadov, Marco Antonellini, John Cherry, Antonino Ciloni, Shang Deng, Eric Flodin, Ghislain de Joussineau, Beth Parker, Jian Zhong*

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*Groundwater in the Water Cycle: Getting to Know the Earth's Most Important Freshwater Source:*  
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