



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

June 27, 2024

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## 1. Original Books Published by the Groundwater Project

(first book issued August 2020)

1. Groundwater in the 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. Hydrologic 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 Plumes as Examples of Transport and Fate: *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. Hydrogeology Glossary: *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 the Mechanics of Flow and Transport for Groundwater Scientists: *H. Klammler (November 2023)*
44. Biotic Transformations: *B. Rittmann (Published December 2023)*
45. History and Hydraulics of Flowing Wells: *J. Xiaowei, J. Cherry (Published January 2024)*
46. Characterizing Legal Implications of Transboundary Aquifers: *G. Eckstein (Published January 2024)*
47. Age Dating Young Groundwater: *K. Solomon, T. Gilmore (Published February 2024)*
48. 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*

## 2. 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*
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. The Ecology of Running Waters: *H.B.N. Hynes (Blackburn Press, 2001)*

27. Karst Hydrogeology and Geomorphology: *D. Ford, P. Williams (Wiley, 2007)*

### 3. Being processed for publication (reviews/revisions completed or nearly so)

1. Flow and Distribution of Non-aqueous Phase Liquids: *K. Mumford, B. Kueper, R. Lenhard*
2. Prediction of Groundwater Sustainability and Land Subsidence in the Toluca Aquifer System, Mexico: *J. Garfias Soliz, R. Martel, A. Calderhead, P. Castellazzi*
3. Conjunctive Water Management: *R. Evans, R. Hanson*
4. Prediction of Groundwater Sustainability and Land Subsidence in the Toluca Aquifer System, Mexico: *J. Garfias Soliz, R. Martel, A. Calderhead, P. Castellazzi*
5. Sobreexplotación y Sustentabilidad del Agua Subterránea en el Acuífero del Valle de Toluca: *J. Garfias Soliz, L. Bibiano Cruz, R. Martel, D. Rudolph*
6. 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)*
7. Transboundary Groundwater Management in the Mackenzie River Basin, Canada: *R. Pentland*
8. Basic Hydrogeology: An Introduction to the Fundamentals of Groundwater Science: *M. Uliana*
9. Public Health Risk Assessment and Risk Management for Groundwater to Ensure a Safe Drinking Water Supply: *S. Hrudey*
10. Hydrogeochemistry: The Origin and Evolution of Geogenic Groundwater Solutes, a Journey of Discovery: *W. Wood*
11. Introduction to Groundwater and Aquifers: *I. Kalwij, J. Cherry*
12. Hydrogeology of the Pannonian Basin: *I. Almasi and J. Szanyi*
13. Groundwater Governance: *K. Pietersen*
14. Groundwater Contamination and Geoenvironmental Impacts of Upstream Oil and Gas Production: *R. Jackson, R. Walsh, M. Dusseault, M. Kang*

### 4. Full Drafts in Peer Review

15. Tracers of Recharge (Chlorine and Isotopes): *P. Cook and P. Brunner*
16. Using Groundwater Head Maps: *L. Toran*
17. Monitoring Requirements for Unbiased Visualization of Groundwater Data: *D. Larssen, B. Black, F. Patton*
18. Groundwater Pollution by Landfills: *F. Lee, A. Jones-Lee*
19. Conceptual Hydrogeological Models: *F. Baechler*
20. Student Activities with Groundwater Flow: *D. Lee*
21. Multilevel Groundwater Characterization & Monitoring with the Westbay System: *B. Black, D. Larssen, F. Patton*
22. Hydrogeology and Geochemistry of Bottled Spring Waters in the United States: *F. Chapelle*
23. Practical Groundwater Tracing with Fluorescent Dyes: *T. Aley, T. Osorno, R. Devlin*
24. 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*
25. Living with Karst: *L. VanRooy and M. Dippenaar*
26. Catastrophic Recharging of a Dormant Aquifer Following an Infrastructure Failure: *R. Newbury*
27. Groundwater and Bottled Water: *J. Weaver, P. Lachassagne and others*
28. Groundwater Need and Land Subsidence in the Beijing Plain: A Problem Still Ongoing: *L. Zhu, P. Teatini, H. Gong, L. Guo, Y. Luo*

29. The Water Cycle: *M. Schirmer, C. Fandel, T. Ferre*

## 5. Drafts Likely to Arrive in 2024 and 2025

30. Vadose Zone: *G. Parkin, E. Cey*
31. Capture of Groundwater by Wells: *J. L. Wilson*
32. Introduction to Chemical Hydrogeology: *J. Cherry*
33. Introduction to Hydrogeochemistry: *TBD*
34. Introduction to Contaminant Hydrogeology: *D. Benson, Diogo Bolster, K. Singha*
35. Heterogeneity and Anisotropy: *G. Weissman*
36. Introduction to Modeling: *B. Woessner, E. Kuniansky, E. Poeter*
37. An Introduction to Water Flow and Solute Transport in Groundwater and the Vadose Zone: *T. Ferre*
38. Groundwater in Hillslope and Catchment Processes: *I. van Meerveld, Y. Reinfelder*
39. Geochemical Modelling: *C. Zhu*
40. Interpretation of Pumping Tests and Other Indicators of Aquifer-Aquitard System Properties: *G. van der Kamp, C. Neville*
41. The Theory of Slug Tests: *C. Neville*
42. Fracture System Characterization Applied to Hydrogeology: *A. Rouleau, A. Fernandes, R. Morin*
43. Discharge and Groundwater Dependent Ecosystems: *M. Laroque, E. Rosa*
44. Coastal Hydrogeology: *V. Post, JJ Jiao*
45. Geochemistry of Nitrogen: *K. Soderberg, S. Macko, L. Wang*
46. Linkages Between Recharge, Discharge and the Environment: *D. Allen*
47. Straddle Packer Tests in Fractured Rock: *P. Quinn*
48. Agrichemical Facility, Cambridge, ON, 30 Year Case Study: *R. Carter*
49. Domestic Well Basics for the Well Owner: *H. Simpson, S. Longboat, H. Murphy, J. Levison*
50. A European Union Perspective on Groundwater Governance: *J. Fried*
51. Hydrogeological and Hydrogeochemical Factors in the Occurrence of Natural Arsenic: *P. Ravenscroft*
52. Groundwater and Arsenic: *P. Bhattacharya, A. Mukherjee*
53. Desert Hydrogeology Overview: *X. Wang, J. Jiao*
54. Introduction to Mountain Hydrogeology: *M. Hayashi and Team*
55. Hydrogeosphere simulations: Insights about Catchment Responses: *A. Brookfield and team*
56. The State of the Planet from a Groundwater Perspective: *J. Cherry and Team*
57. Physical Hydrograph Analysis: *A. Kovacs*
58. Groundwater and Tunnels: *H. Rocha, W. Bilfinger*
59. Groundwater as the Solution to Rural Water Poverty: *J. Cherry, P. Bauman others*
60. Modern Contaminant Hydrology: *T. Sale, J. Scalia*
61. Constructing and Understanding Basic Groundwater Transport and Reaction Equations: *H. Klammler*
62. Understanding Math in Groundwater Science: *F. Marinelli, H. Klammler, R. Devlin*
63. Springs in Basalt: Insights from Tracer Tests: *N. Farmer, D. Blew*
64. Springs of Nova Scotia: *F. Baechler*
65. Long distance tracer tests for understanding groundwater flow in basalts: *N. Farmer, D. Blew*
66. Hydrogeology of Springs: *L. Stevens and Team*
67. Heat and Temperature in Groundwater: *V. Bense, B. Kurlyk, G. Ferguson*
68. Nature and Importance of Reaction Interfaces and Zones: *J. Spain, J. Cherry*
69. Methods to characterize subsurface media at the grain scale: *D. Mackay*



70. Slope Stability and Landslides: *J. Jiao and team*
71. Karst in Canada: *D. Ford*
72. Karst: *T. Scheytt*
73. Soil Hydrology and Biophysics: *J. Selker and D. Or*
74. Redox Indicators and Processes: *R. Jakobsen, R. Jackson*
75. Principles of Groundwater Geochemistry: *T. Al, U. Mayer*
76. Quantitative Hydrogeochemistry: *U. Mayer and H. Prommer*
77. Hydrogeochemical Considerations in Mining: *M. Logsdon*
78. Guarani Aquifer System: Brazil, Argentina, Paraguay, Uruguay: *R. Kircheim*
79. Hong Kong Urban Hydrogeologic Processes: *JJ Jiao*
80. Mexico Valley Aquifer: *A. Rivera*
81. Clayey aquitards, the cases of two closed basin aquitards: Mexico City and the La Laguna Region in northern Mexico: *A. Ortega*
82. Hydrogeochemistry and Investigation of Mine Waters: *R. Bowell, M. Leybourne*
83. Adaptive Management: *A. Rabideau*
84. History of Hydrogeology, Canada: *R. Jackson, G. van der Kamp, H. Maathuis*
85. History of Hydrogeology, South Africa: *R. Meyer and E. Wyk, R. Kleywecht*
86. Effective Groundwater Model Calibration: With Analysis of Data, Sensitivities, Predictions, and Uncertainty: *M. Hill, C. Tiedmen, E. Poeter*
87. Effective Groundwater Model Calibration: With Analysis of Data, Sensitivities, Predictions, and Uncertainty Primer: *M. Hill, C. Tiedmen, E. Poeter*
88. Molecular Diffusion in Saturated Porous Geological Media: Theory and Applications: *P. Wanner, B. Parker, and team*
89. Carbon-14 as a Tool in Hydrogeology: *L. Wassenaar*
90. Contamination of Karst in the United States: *E. Kuniansky*
91. Groundwater as a Component of the Global Water Crisis: *S. Erfurth, J. Cherry, B. Parker*
92. Best Practises on Contaminant Site Management in British Columbia, Canada: *G. Patrick*
93. Groundwater and the Circular Economy: *I. Stewart, D. Mulhall, R. Hanson, J. Cherry*
94. Dashboards and Low-Cost Sensors: *J. Drage, G. Fogg and A. Wickert*
95. Application of Sequence Stratigraphy in Hydrogeology - Concepts: *J. Sadeque and R. Samuels, B. Campanaro*
96. Groundwater, An Enigmatic Portion of the Carbon Cycle: *W. Wood; J. Cherry*
97. Multilevel Groundwater Monitoring Systems: Technologies: *J. Cherry, B. Parker, S. Chapman*
98. Remediation Approaches and Methods: *N. Thomson, C. Divine*
99. Contaminant Mass Flux/Discharge: *M. Einarson*
100. Contaminated Site Hydrogeology Inferred from Holocene Sediment Deposition History: Case Study:
101. *S. Moran and team*
102. Techniques and Practical Considerations for Groundwater Development: *I. Kalwij and J. Cherry*
103. Self-potential: *D. Jougnot, E. Voytek, K. Singha*
104. Use of Domestic Wells for Groundwater Monitoring and Research: *S. Hamilton*
105. Modeling Approaches for Estimating (Impacts of Climate Change on) Recharge: *D. Allen, J. Levison*
106. Viruses in Groundwater from a Well Sampling Perspective: *K. Bradbury and M. Borchardt*
107. The Underground Water: The Global Unexpected Land and Sea Invisible Connectivity:  
*V.E.A. Fuentes, A. Michallef*
108. Time Scale Connection of Groundwater with Adjacent Sphere: *M. Tanigouchi*

109. Karst: *M. Petitta*
110. Groundwater Flooding: *G. Parkin*
111. Tree Analysis to Track Groundwater Contamination: *J. Burken*
112. Groundwater and Submarine Discharge: *G. Destouni*
113. Dissolved Gases in Groundwater: *G. Wang, F. Lui, C. Cravotta, D. Vesper*
114. Till Aquitards: *J. Fredericia, K. Klint, B. Nilsson*
115. Karoo Aquifer, South Africa: *E. Lukas, F. DeLange*
116. The Ogallala Aquifer: *R. Stotler*
117. Experiences of Learning and Struggling against Land Subsidence in Shanghai Over a Century from 1921 to 2020: *S. Ye, X. Yan*
118. Well Yield: *P. Gray*
119. Permafrost Overview: *M. Walvoord, B. Kurlyk and others*
120. Strontium Isotopes: *I. Clark, C. Bataille*
121. Optimization Approaches: *D. Ahfeld*
122. Pesticide Contamination of Groundwater in Agricultural Areas of Tropical Regions: *C. Spadotto, E. Does, R. Mingoti*
123. Superfund Investigation in Basalt, Soda Springs, Idaho 2018: *M. Einarson*
124. Hydrogeology for Alpine Mine Environmental Assessments: *R. Blair*
125. The Value of Restoring Groundwater: *A. Rabideau*
126. Introduction to Flow and Transport and Fractured Rock: *K. Novakowski, T. Doe, S. Wright*
127. Groundwater and Soil Salinity: *I. Cartwright*
128. 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*
129. Geological CO<sub>2</sub> Storage in Saline Aquifers: *S. Mishra, A. Haagsmaa, M. Kelley, A. Datta-Gupta, C. Jenkins*
130. Phytoremediation: *D. Tsao*
131. Groundwater Engineering: Design and Modelling: *S. Thomas*
132. Groundwater Resources in China: *L. Yu*
133. Application to of Sequence Stratigraphy for the Environmental Industry: Coastal & Shallow Marine Environments: *J. Sadeque and R. Samuels, B. Campanaro*
134. Application to of Sequence Stratigraphy for the Environmental Industry: Continental Environments: *J. Sadeque and R. Samuels, B. Campanaro*
135. Groundwater and Lakes: *D. Rosenberry*
136. Establishing Wellhead Protection Areas: *P. Martin and team*
137. The Subsurface as an Energy Source: *M. Dusseault and J. Raymond*
138. Nature of contaminant plumes in strongly heterogeneous granular media: *G. Fogg*
139. The role of groundwater in earthquakes: natural and human influence: *S. Ge*
140. Insights from MADE Site Experiments: *C. Zheng*
141. Sketching as a path to enhance 3-D thinking in hydrogeology: *C. Fandel*
142. Land subsidence in Japan: *T. Tokunaga and T. Endo*
143. Understanding Why Water Levels in Wells Change with Time: *J. Kennel*
144. Nitrate in Groundwater – State of Sao Paulo, Brazil: *C. Varnier, J. Luiz Albuquerque Filho, R. Hirata*
145. Quaternary Aquitards: *F. Larsen and Team*
146. Groundwater Management in Orange County, USA: *R. Herndon*

147. Fractures and Faults in Carbonates: Limestone, Dolostone and Chalk and Their Impacts on Groundwater: *F. Agosta, M. Antonellini*
148. Glacial Geology and Groundwater: *H. Russell, M. Hinton, D. Sharpe*
149. Hydrogeology of Saprolite: *L. McKay and team*
150. Domestic Well Regulation and Risk Management: *W. Lusk*
151. Colorado River Basin: *A. Rivera*
152. Ground-penetrating radar: *C. Steelman*
153. Electromagnetic induction: *S. Kang, L. Heagy, D. Oldenburg*
154. Nuclear magnetic resonance: *K. Keating*
155. Seismic: *J. Hayes, B. Flinchum*
156. Rock physics: *F. Nguyen*
157. Joint inversion: *E. Oware*
158. Airborne Methods: *B. Minsley*
159. Compound Specific Isotope Analyses (CSIA): *P. Bennett and team*
160. Trans-boundary aquifers: Issues and Management: *R. Hirata, S. Foster, A. Suhogusoff*
161. Fundamental Theory of Solute Transport in Heterogeneous Porous Media: *P. Kitanidis*
162. Analytical Methods for Identifying and Quantifying Organic Chemicals: *R. Rago*
163. Groundwater and Indoor Air: *T. McAlary*
164. Hydrogeology and Tunnels: *J. Raymer, H. Asche*
165. Henry Darcy and Shorty and the Public Fountains of the Town of Dijon: *B. Soldera*
166. Groundwater Concepts for Children: *P. Gray, C. McDonald*

## 6. Teams Being Developed

1. Introduction to Groundwater Geology: *Team Being Developed*
  2. Rainwater Harvesting in Developing Countries from a Hydrogeological Perspective: *Team being assembled*
  3. Gravity Drive Flow Systems: *Team being assembled*
  4. Manual and Lowest Cost Engine Drilling of Water Wells in Developing Countries: *Team being assembled*
  5. Groundwater and Wetlands: *Team being assembled*
  6. Atolls and Small Islands: *Team being assembled*
  7. Groundwater and Glaciers: *Team being assembled*
  8. Managed Aquifer Recharge: Concepts and Processes: *Team being assembled*
  9. Groundwater Under the Direct Influence of Surface Water (GUDISW): *Team being assembled*
  10. Domestic Wells in Fractured Rock and their Vulnerability to Contamination: *Team being assembled*
  11. Hydrogeological and Hydrogeochemical Factors in the Occurrence of Natural Manganese: *Team being assembled*
  12. Radium and Uranium in groundwater: natural occurrence and geochemistry: *Team being assembled*
  13. Geochemical Aspects of Groundwater Related Mining, including a synthetic case study: *Team being assembled*
  14. Groundwater and carbon capture and storage: *Team being assembled*
  15. Basalt hydrogeology: Central America: *Team being assembled*
- And many more...*



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

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

**Malayalam** by V K Brijesh

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

**Bahasa Indonesia** by Steven Reinaldo Rusli

**Farsi** by Ata Joodavi

**Portuguese** by Thais de Paula

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

**Spanish** by Montserrat San Martin-Velasco

*Electrical Imaging for Hydrogeology: Kamini Singha, Tim Johnson, Frederick Day-Lewis and Lee Slater*

**Spanish** by Pablo Guerrero and Angel Intriago

*Geologic Framework for Groundwater Flow Models: J. P. Brandenburg*

**Arabic** by Majd Shahla

**French** by Nouha Samlani

**Hungarian** by András Jakab

**Italian** by Alessio Fileccia

**Portuguese** by Thaís de Paula Marteleto

**Spanish** by Pabla Tognoli

*Graphical Construction of Groundwater Flow Nets: Eileen Poeter and Paul Hsieh*

**Spanish** by Yetzabbel Flores

*Groundwater: R. Allan Freeze and John A. Cherry*

**Arabic** by Joanna Doummar, Hatim Sharif and Wissam Khadra

**Farsi** by Siavash Behrooz

**French** by Alex Lemieux, Emilia Wojciechowska, Vladyslav Rayda, Timothee Le Guellec, Michel Bakalowicz, Jeff Norville, Éric Rosa, Vincent Cloutier, Marc-André Bourgault, Marie Larocque, Alain Rouleau, Sandra Richard, Romain Chesnaux, Faten Jarraya Horriche, Rachida Bouhlila, Mounira Zammouri, Amina Mabrouk, Imen Hassen, Meriem Ameur, Nabil Neji, Fairouz Slama, Nizar Quartani, Hella Néji, Lamia Guellouz, Raja Chairi, Fadoua Hamzaoui, Raqya Al Atiri, Ezzeddine Laabidi

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**Swedish** by Charlotte Sparrenbom and Bo Olofsson

**Urdu** by Muqaddas Tariq

**Yoruba** by Dr. Oluwole Ayinde Oyedeji

## 8. Translations of Groundwater Project Books - Underway

*Age Dating Groundwater: Kip Solomon and Troy Gilmore*

**French** by Alidou Habirou

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

**Spanish** by Fernando Lara

*A Conceptual Overview of Surface and Near Surface Brines and Evaporite Minerals: Warren W. Wood*

**Spanish** by Beatriz Moreno

**Arabic** by Khalil Ibrahim Al Samarra

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

**Spanish** by Alvaro Espinoza

**Turkish** by Mustafa Afsin

**Taglog** by Ashemir Velasco

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

**Spanish** by Eddy Pazmiño

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

**Bengali** by Ismail Hussain

**Catalan** by Aline Concha

**French** by Guillaume de Schepper

**Italian** by Daniele Martuscelli

**Spanish** by Guillermo Luque

**Turkish** by Sebnem Arslan and Melis Somay

**Vietnamese** by Hai vu

*Cross-Border Impacts Related to Transboundary Aquifers: Gabriel Eckstein and Yoram Eckstein*

**Portuguese** by Pilar Carolina Villar

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

**French** by Nouha Samlani

**Portuguese** by Marcio Costa Alberto

**Spanish** by Miguel Madrid

**Turkish** by Doğukan Tayyar and Hüseyin Ertan Yüksel

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

**Spanish** by Montserrat San Martín

**Vietnamese** by Hue Nguyen & Ms. Hong

*Distributed Fiber-Optic Hydrogeophysics: Scott W. Tyler, John S. Selker, Nick van de Giesen and Juan Aquilar-Lopez*

**Spanish** by Diego Contreras G.

*Domestic Wells – Introduction and Overview: John Drage*

**French** by Ndeye Marie Diop

**Spanish** by Pável Bautista Solís

**Portuguese** by Gustavo Simão

**Lingala** by Daniel Nzomba

*The Edwards Aquifer: Jack Sharp and Ron Green*

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*Electrical Imaging for Hydrogeology: Kamini Singha, Tim Johnson, Frederick Day-Lewis and Lee Slater*

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

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**Igbo** by Elochukwu Chidubem Sunday Okoye

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

**German** by Richard Hoffmann

**Portuguese** by Helga Alves

**Spanish** by Ignacio Puga

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

**Spanish** by Ayaz Alam

**French** by Ali Huono

*Geologic Framework for Groundwater Flow Models: J. P. Brandenburg*

**Amheric** by Behailu Birhanu

**Hausa** by Aminu Ibrahim

*Getting Started with Modflow: Richard B. Winston*

**French** by Alidou Habirou

*A Glossary of Hydrogeology: Jack Sharp*

**Spanish** by Manuel Azancot

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*Graphical Construction of Groundwater Flow Nets: Eileen Poeter and Paul Hsieh*

**Portuguese** by Taise Ferreira Rebouças

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*Groundwater: R. Allan Freeze and John A. Cherry*

**Greek** by Georgina Kalogerakis, Daniil Moraitis, George P. Karatzas, Maria Loizoo, Petros Gaganis and Vlasios Xrusanthou

**Hebrew** by Hagit Blumenthal

*Groundwater and Petroleum: Yousif Kharaka, Brian Hitchon and Jeffrey Hanor*

**Chinese** by Prof. Pang

**Russian** by Oleg Chudaev & Cuseva Natalia

**Portuguese** by Yargo Oliveira

*Groundwater and Hydrothermal Ore Deposits: Martin Appold, Grant Garven*

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**Spanish** by Sebastián Carreño L.

*Urban Groundwater: Ken Howard*

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