



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

April 4, 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. Gambolatti, P. Teatini (August 11, 2021)*
16. Managed Aquifer Recharge: Southern Africa: *B. Eberhard 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 Jousineau, B. Parker, J. Zhong (January 2023)*
32. Groundwater in Peat and Peatlands: *J. Price, C. McCarter, B. 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. Rittman (Published December 2023)*
45. History and Hydraulics of Flowing Wells: *J. Xiaowei, J. Cherry (Published January 2022)*
46. Characterizing Legal Implications of Transboundary Aquifers: *G. Eckstein (Published January 2022)*
47. Age Dating Young Groundwater: *K. Solomon, T. Gilmore (Published February 2022)*
48. Elmvale Groundwater Observatory: *B. Shotyk et al. (March 2022)*
49. Karst – Environment, Aquifers, Management: *Z. Stevanovic, J. Gunn, N. Goldscheider, N. Ravbar (April 2024)*
50. Properties of Organic Contaminants: *D. Mackay, R. Allen-King, W. Rixey (April 2024)*

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. 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. Groundwater Pollution: Jean Fried (Pending approval with Wiley; Published by Elsevier Science Ltd, 1975)
18. World Bank, 2023, The hidden wealth of nations: Economics of groundwater in times of climate change, 30 pages, (permission pending)
19. Springs of the World: Distribution, Ecology and Conservation Status: L. Stevens et al. (to be published soon)
20. Arsenic Pollution: P. Ravenscroft, H. Brammer, K. Richard (Wiley Blackwell, 2009)

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

1. Darcy's Law in Variable Density Groundwater Systems: F. Marinelli
2. Identifying International Legal Trends for Managing Transboundary Groundwater Resources: G. Eckstein (book 2)
3. Occurrence and Flow of Non-aqueous Phase Liquids: K. Mumford, R. Lenhard, B. Kueper

4. Prediction of Groundwater Sustainability and Land Subsidence in the Toluca Aquifer System, Mexico: *J. Garfias Soliz, R. Martel, A. Calderhead, P. Castellazzi*
5. Conjunctive Use Overview: *R. Hanson, R. Evans*
6. Sobreexplotación y Sustentabilidad del Agua Subterránea en el Acuífero del Valle de Toluca: *J. Garfias Soliz, L. Bibiano Cruz, R. Martel, D. Rudolph*
7. 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)*
8. Transboundary Groundwater Management and Protection in a Remote Setting: *R. Pentland*
9. Introduction to Groundwater and Aquifers: *I. Kalwij, J. Cherry*
10. Pannonian Basin – Central and Eastern Europe: *A. Tahy, T. Szocs, J. Szanyi*

4. Full Drafts in Peer Review

1. Tracers of Recharge (Chlorine and Isotopes): *P. Cook and P. Brunner*
2. Using Groundwater Head Maps: *L. Toran*
3. Monitoring Requirements for Unbiased Visualization of Groundwater Data: *D. Larssen, B. Black, F. Patton*
4. The Origin and Evolution of Geogenic Groundwater Solutes, a Journey of Discovery: *W. Wood, J. Cherry*
5. Landfills as a Source of Groundwater Contamination: *F. Lee, A. Jones-Lee*
6. Basic Hydrogeology Lectures for Overview Undergrad Courses: *M. Ulliana*
7. Health Risk Basis for Drinking Water Quality Guidelines: *S. Hruday*
8. Practical Groundwater Tracing with Fluorescent Dyes: *T. Aley, T. Osorno, R. Devlin*
9. Oak Ridges Moraine: *Rick Gerber, Steve Holysh, Mike Doughty, Mason Marchildon, Britt Smith, David Sharpe, Shaun Frape, Lori Labelle.*
10. Creating Conceptual Hydrogeological Models for Understanding the Fresh Water Resources of Cape Breton Island, Nova Scotia, Canada: *F. Baechler*
11. Groundwater Governance: *K. Pietersen*
12. Managing Groundwater as Cities Grow: Water Quality Issues and Solutions in the United States: *B. Pitt, S. Clark*
13. Catastrophic Recharging of a Dormant Aquifer Following an Infrastructure Failure: *R. Newbury*
14. Groundwater and Bottled Water: *J. Weaver, P. Lachassagne and others*
15. Groundwater Need and Land Subsidence in the Beijing Plain: A Problem Still Ongoing: *L. Zhu, P. Teatini, H. Gong, L. Guo, Y Luo*
16. Living with Karst: *L. VanRooy and M. Dippenaar*
17. Groundwater Contamination and Geoenvironmental Impacts of Upstream Oil and Gas Production: *R. Jackson, R. Walsh, M. Dusseault, M. Kang*
18. **Children's Book:** The Water Cycle: *M. Schirmer, C. Fandel, T. Ferre*
19. Seepage Meters and Mini-Piezometers for Groundwater Education: *D. Lee*

5. Drafts Likely to Arrive in 2024 and 2025

1. Capture of Groundwater by Wells: *J. L. Wilson*
2. Introduction to Chemical Hydrogeology: *J. Cherry*
3. Introduction to Hydrogeochemistry: *A. Navarre-Stichler, R. Wanty*
4. Introduction to Contaminant Hydrogeology: *D. Benson, Diogo Bolster, K. Singha*
5. Heterogeneity and Anisotropy: *G. Weissman*
6. Introduction to Modeling: *B. Woessner, E. Kuniansky, E. Poeter*

7. Introduction to Flow in Fractured Media: *T. Doe*
8. Introduction to water flow and transport in groundwater and the vadose zone: *T. Ferre*
9. Groundwater in Hillslope and Catchment Processes: *I. van Meerveld, Y. Reinfelder*
10. Geochemical Modelling: *C. Zhu*
11. Interpretation of Pumping Tests and Other Indicators of Aquifer-Aquitard System Properties: *G. Vanderkamp, C. Neville*
12. The Theory of Slug Tests: *C. Neville*
13. Fracture System Characterization Applied to Hydrogeology: *A. Rouleau, A. Fernandes, R. Morin*
14. Discharge and Groundwater Dependent Ecosystems: *M. Laroque, E. Rosa*
15. Coastal Hydrogeology: *V. Post, JJ Jiao*
16. Geochemistry of Nitrogen: *K. Soderberg, S. Macko, L. Wang*
17. Linkages Between Recharge, Discharge and the Environment: *D. Allen*
18. Straddle Packer Tests in Fractured Rock: *P. Quinn*
19. Agrichemical Facility, Cambridge, ON, 30 Year Case Study: *R. Carter*
20. Domestic Well Basics for the Well Owner: *H. Simpson*
21. A European Union Perspective on Groundwater Governance: *J. Fried*
22. Hydrogeological and Hydrogeochemical Factors in the Occurrence of Natural Arsenic: *P. Ravenscroft*
23. Groundwater and Arsenic: *P. Bhattacharya, A. Mukherjee*
24. Desert Hydrogeology Overview: *X. Wang, J. Jiao*
25. Introduction to Mountain Hydrogeology: *M. Hayashi and Team*
26. Hydrogeosphere simulations: Insights about Catchment Responses: *A. Brookfield and team*
27. The State of the Planet from a Groundwater Perspective: *J. Cherry and Team*
28. Physical Hydrograph Analysis: *A. Kovacs*
29. Hydrogeology and Geochemistry of Bottled Spring Waters in the United States: *F. Chapelle*
30. Groundwater and Tunnels: *H. Rocha, W. Bilfinger*
31. Groundwater as the Solution to Rural Water Poverty: *J. Cherry, P. Bauman others*
32. Modern Contaminant Hydrology: *T. Sale, J. Scalia*
33. Constructing and Understanding Basic Groundwater Transport and Reaction Equations: *H. Klammler*
34. Understanding Math in Groundwater Science: *F. Marinelli, H. Klammler*
35. Springs in Basalt: Insights from Tracer Tests: *N. Farmer, D. Blew*
36. Springs of Nova Scotia: *F. Baechler*
37. Long distance tracer tests for understanding groundwater flow in basalts: *N. Farmer, D. Blew*
38. Hydrogeology of Springs: *L. Stevens and Team*
39. Heat and Temperature in Groundwater: *V. Bense, B. Kurlyk, G. Ferguson*
40. Nature and Importance of Reaction Interfaces and Zones: *J. Spain, J. Cherry*
41. Methods to characterize subsurface media at the grain scale: *D. Mackay*
42. Slope Stability and Landslides: *J. Jiao and team*
43. Karst in Canada: *D. Ford*
44. Karst: *T. Scheytt*
45. Soil Hydrology and Biophysics: *J. Selker and D. Or*
46. Redox Indicators and Processes: *R. Jakobsen, R. Jackson*
47. Principles of Groundwater Geochemistry: *T. Al, U. Mayer*
48. Quantitative Hydrogeochemistry: *U. Mayer and H. Prommer*
49. Hydrogeochemical Considerations in Mining: *M. Logsdon*

50. Guarani Aquifer System: Brazil, Argentina, Paraguay, Uruguay: *R. Kircheim*
51. Sea Water Intrusion: *S. Pradhanang, T. Boving, J. Panthi*
52. Hong Kong Urban Hydrogeologic Processes: *JJ Jiao*
53. Mexico Valley Aquifer: *A. Rivera*
54. Clayey aquitards, the cases of two closed basin aquitards: Mexico City and the La Laguna Region in northern Mexico: *A. Ortega*
55. Hydrogeochemistry and Investigation of Mine Waters: *R. Bowell, M. Leybourne*
56. Adaptive Management: *A. Rabideau*
57. History of Hydrogeology, Canada: *R. Jackson, G. Vanderkamp, H. Maathius*
58. History of Hydrogeology, South Africa: *R. Meyer and E. Wyk, R. Kleywecht*
59. Effective Groundwater Model Calibration: With Analysis of Data, Sensitivities, Predictions, and Uncertainty: *M. Hill, C. Tiedmen, E. Poeter*
60. Effective Groundwater Model Calibration: With Analysis of Data, Sensitivities, Predictions, and Uncertainty Primer: *M. Hill, C. Tiedmen, E. Poeter*
61. Molecular Diffusion in Saturated Porous Geological Media: Theory and Applications: *P. Wanner, B. Parker, and team*
62. Carbon-14 as a Tool in Hydrogeology: *L. Wassenaar*
63. Contamination of Karst in the United States: *E. Kuniansky*
64. Best Practises on Contaminant Site Management in British Columbia, Canada: *G. Patrick*
65. Groundwater and the Circular Economy: *I. Stewart, M. Mulhall, R. Hanson, J. Cherry*
66. Dashboards and Low-Cost Sensors: *J. Drage, G. Fogg and A. Wickert*
67. Application of Sequence Stratigraphy in Hydrogeology - Concepts: *J. Sadeque and R. Samuels, B. Campanaro*
68. Hydrogeochemistry of Sabkhas: *W. Wood and C. Simmons*
69. Multilevel Groundwater Monitoring Systems: Technologies: *J. Cherry, B. Parker, S. Chapman*
70. Remediation Approaches and Methods: *N. Thomson, C. Divine*
71. Contaminant Mass Flux/Discharge: *M. Einarson*
72. Manual and Lowest Cost Engine Drilling of Water Wells in Developing Countries: *Team being assembled*
73. Contaminated Site Hydrogeology Inferred from Holocene Sediment Deposition History: Case Study: *S. Moran and team*
74. Techniques and Practical Considerations for Groundwater Development: *I. Kalwij and J. Cherry*
75. Self-potential: *D. Jougnot, E. Voytek, K. Singha*
76. Use of Domestic Wells for Groundwater Monitoring and Research: *S. Hamilton*
77. Modeling Approaches for Estimating (Impacts of Climate Change on) Recharge: *D. Allen, J. Levison*
78. Viruses in Groundwater from a Well Sampling Perspective: *K. Bradbury and M. Borchardt*
79. Rainwater Harvesting in Developing Countries from a Hydrogeological Perspective: *Team being assembled*
80. Gravity Drive Flow Systems: *Team being assembled*
81. The Underground Water: The Global Unexpected Land and Sea Invisible Connectivity: *v.E.A. Fuentes, A. Michallef*
82. Time Scale Connection of Groundwater with Adjacent Sphere: *M. Tanigouchi*
83. Karst: *M. Pettita*
84. Groundwater Flooding: *G. Parkin*
85. Groundwater Economics and Governance: *A. Ross*
86. Tree Analysis to Track Groundwater Contamination: *J. Burken*
87. Groundwater and Submarine Discharge: *G. Destouni*

6. In planning with committed authors

Children's books

1. Henry Darcy and the Fountains of Dijon: *K. Henry*
2. Henry Darcy and Shorty and the Public Fountains of the Town of Dijon: *B. Soldera*
3. Groundwater Concepts for Children: *P. Gray, C. McDonald*

Overview to Specialized Books

4. Introduction to Groundwater Geology: *Team*
5. Application to of Sequence Stratigraphy for the Environmental Industry: Coastal & Shallow Marine Environments: *J. Sadeque and R. Samuels, B. Campanaro*
6. Application to of Sequence Stratigraphy for the Environmental Industry: Continental Environments: *J. Sadeque and R. Samuels, B. Campanaro*
7. Groundwater and Lakes: *D. Rosenberry*
8. Groundwater and Wetlands: *Team being assembled*
9. Hydrogeologic Concepts Explained Using Mathematics at the Most Basic Level: *R. Devlin*
10. Groundwater and Modern Agriculture: Depletion, Pollution and Alternative Paths: *C. Andrews*
11. Dissolved Gases in Groundwater: *G. Wang, F. Lui, C. Cravotta, D. Vesper*
12. Till Aquitards: *J. Fredericia, K. Klint, B. Nilsson*
13. Thermal and Saline Spring Hydrogeochemistry: *W. Wood*
14. Karoo Aquifer, South Africa: *E. Lukas, F. DeLange*
15. The Ogallala Aquifer: *R. Stotler*
16. Experiences of Learning and Struggling against Land Subsidence in Shanghai Over a Century from 1921 to 2020: *S. Ye, X. Yan*
17. Well Yield: *P. Gray*
21. Permafrost Overview: *M. Walvoord, B. Kurlyk and others*
22. Strontium Isotopes: *I. Clark, C. Bataille*
23. Optimization Approaches: *D. Ahfeld*
24. Pesticide Contamination of Groundwater in Agricultural Areas of Tropical Regions: *C. Spadotto, E. Dores, R. Mingoti*
25. Superfund Investigation in Basalt, Soda Springs, Idaho 2018: *M. Einarson*
26. Hydrogeology for Alpine Mine Environmental Assessments: *R. Blair*
27. The Value of Restoring Groundwater: *A. Rabideau*
28. Atolls and Small Islands: *Team being assembled*
29. Groundwater and Glaciers: *Team being assembled*
30. Dewatering during Large Construction Projects: *S. Thomas*
31. Managed Aquifer Recharge: Concepts and Processes: *Team being assembled*
32. Groundwater Under the Direct Influence of Surface Water (GUDISW): *Team being assembled*
33. Domestic Wells in Fractured Rock and their Vulnerability to Contamination: *Team being assembled*
34. Hydrogeological and Hydrogeochemical Factors in the Occurrence of Natural Manganese: *Team being*

assembled

35. Radium and Uranium in groundwater: natural occurrence and geochemistry: *Team being assembled*
36. Establishing Wellhead Protection Areas: *P. Martin and team*
37. The Subsurface as an Energy Source: *M. Dusseault and J. Raymond*
38. Nature of contaminant plumes in strongly heterogeneous granular media: *G. Fogg*
39. The role of groundwater in earthquakes: natural and human influence: *S. Ge*
40. Geochemical Aspects of Groundwater Related Mining, including a synthetic case study: *Team being assembled*
41. Groundwater and carbon capture and storage: *Team being assembled*
42. Basalt hydrogeology: Central America: *Team being assembled*
43. Insights from MADE Site Experiments: *C. Zheng*
44. Sketching as a path to enhance 3-D thinking in hydrogeology: *C. Fandel*
45. Land subsidence in Japan: *T. Tokunaga and T. Endo*
46. Understanding Why Water Levels in Wells Change with Time: *J. Kennel*
47. Nitrate in Groundwater – State of Sao Paulo, Brazil: *C. Varnier, J. Luiz Albuquerque Filho, R. Hirata*
48. Quaternary Aquitards: *F. Larsen and Team*
49. Groundwater Management in Orange County, USA: *R. Herndon*
50. Fractures and Faults in Carbonates: Limestone, Dolostone and Chalk and Their Impacts on Groundwater: *F. Agosta, M. Antonellini*
51. Glacial Geology and Groundwater: *H. Russell, M. Hinton, D. Sharpe*
52. Hydrogeology of Saprolite: *L. McKay and team*
53. Domestic Well Regulation and Risk Management: *W. Lusk*
54. Colorado River Basin: *A. Rivera*
55. Ground-penetrating radar: *C. Steelman*
56. Electromagnetic induction: *S. Kang, L. Heagy, D. Oldenburg*
57. Nuclear magnetic resonance: *K. Keating*
58. Seismic: *J. Hayes, B. Flinchum*
59. Rock physics: *F. Nguyen*
60. Joint inversion: *E. Oware*
61. Airborne Methods: *B. Minsley*
62. Phytoremediation: *D. Tsao*
63. Compound Specific Isotope Analyses (CSIA): *P. Bennett and team*
64. Trans-boundary aquifers: Issues and Management: *R. Hirata, S. Foster, A. Suhogusoff*
65. Fundamental Theory of Solute Transport in Heterogeneous Porous Media: *P. Kitanidis*
66. Analytical Methods for Identifying and Quantifying Organic Chemicals: *R. Rago*
67. Groundwater and Indoor Air: *T. McAlary*
78. Hydrogeology and Tunnels: *J. Raymer, H. Asche*

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

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

Mandarin by Xiao-long Wu

Portuguese by Água Sustentavel

Russian by Gani Nessipbekov

Spanish by Luis Camilo Suescún, Liz Valbuena, Flavia Pelizardi, Sandra Richard, Antonio Barroso, Francisco Castrillon, Claudia Patricia Arroyave, Nelson Bernal, Roberto Serna, Marcela Jaramillo,

Mauricio Eduardo Flores, Yelba Flores, Rogelio Monreal, Ingrid Vargas, Marcia Calderón, Ronald Zapata, Waldo Medinaceli, Flavia Pelizardi, José Mario Guevara Retana, Julio Ernesto Payes Hernández, José Roberto Duarte Saldaña, Marcia Lizeth Barrera de Calderón, Saul Guevara, Rafael Huizar Álvarez, Marcos Adrián Ortega Guerrero, Gloria Salazar Ramirez, José Joel Carrillo Rivera, Dailyn Sarai Badillo Reina, Mónica D'Elia, Marcela Pérez, Marta Paris, César Arturo Vera florez, Miguel Rangel Medina, Dayna Angélica Cañez Araiza, Irlanda Patricia Grijalva Leal, Diana Aglael Zayas Ayón, Anho Antonio Taylor Castillo, Valeria Delgado, Sadia Lanza, Marvin Salguero, Ingrid Vargas Azofeifa, Ingrid Vargas Azofeifa, Magdalena Monge Cordero, Roberto Ramírez Chavarría, Paola Alvarado Piedra, Jairo Yecid Chaparro, Cesar Arturo Vera Florez

Turkish by Kâmil Kayabali

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 Macky

Catalan by Josep Mas-Pla

Italian by Marco Petitta

Turkish by Alper Elçi

Groundwater Microbiology: F. Grant Ferris, Natalie Szponar and Brock A. Edwards

Portuguese by Natalia Klanovicz and Helen Treichel

Groundwater Quality and Examples of Risk Interpretation Procedures: Edward McBean

Chinese by Jia Keli

Groundwater Resources Development: Effects and Sustainability: Leonard F. Konikow and John D. Bredehoeft

Spanish by María Rosa Servín Nasich

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Portuguese by Thais de Paula

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Italian by Alessio Fileccia

Wally and Deanna: Leanne Appleby and Peter Russell

Afrikaans by Fanus Fourie

Arabic by Hind Bash Imam and Yasamen Abdel Basset Al-Ahmar

Chinese by YingYing Liu

Creole by Sabine Cherenfant

Finnish by Anne Petäjä-Ronkainen & Mirjam Orvomaa

French by Paisley Worthington

Galician by Jorge Dafonte

German by Christina Formanek

Greek by Ειρήνη Νταγκουνάκη

Hausa by Aminu Ibrahim

Hindi by Lalit Mohan Sharma

Hungarian by Judit Déri-Takács

Indonesian by Azwar S. Muhammad

Italian by Mara Meggiorin and Eleonora Lupi

Japanese by Kimpei Ichiyanagi

Malay by Intan Sazrina Saimy

Mongolian by Nemer Buyankhishig

Portuguese by Nilson Guiguer and Elaine Azevedo

Setswana by Keneilwe Maduo Makwati

Spanish by Luis Camilo Suescún

Swedish by Charlotte Sparrenbom and Bo Olofsson

Urdu by Muqaddas Tariq

Yoruba by Dr. Oluwole Ayinde Oyedeji

8. Translations of Groundwater Project Books - Underway

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 Samarrai

Portuguese by Ryan Andrade

Claire and the Invisible Water: Luciana Cordeiro de Souza Fernandes

Spanish by Alvaro Espinoza

Turkish by Mustafa Afsin

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: Characterizing Legal Responsibility and Liability: Gabriel Eckstein and Yoram Eckstein

Portuguese by Pilar 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

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

Spanish by Laidy Tahisa Juiro Palma

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

Persian by Mohammad Kashkouli

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

Spanish by Yousra Haddad Belfkih

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 Jossineau, Beth Parker, Jian Zhong

Spanish by Ayaz Alam

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

Amheric by Behailu Birhanu

Hausa by Aminu Ibrahim

A Glossary of Hydrogeology: Jack Sharp

Spanish by Manuel Azancot

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

Portuguese by Taise Ferreira Rebouças

Italian by Alessio Fileccia

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 in Peat and Peatlands: Jonathan S. Price, Colin P.R. McCarter and William L. Quinton

Spanish by Elizabeth Estefania Naranjo Garofalo

Groundwater and Hydrothermal Ore Deposits: Martin Appold, Grant Garven

Spanish by Marcela Perez

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 Macky

Arabic by Abdulaziz Alshaibani and Khalil Al-Samarrai

French by Jean Pierre Faillat

German by Thomas Reimann

Indonesian by Azwar Muhammad

Kinyarwanda by Doreen Asimwe

Kurdish by Kathleen DeWitt / Drivan J. Bajalan

Laos by Sinxay Vongphachanh

Marathi by Vinit Phadnis
Pashto by Usman Naderi
Polish by Piotr Pawlikowski
Portuguese by Marcio Alberto and Cláudia Varnier
Spanish by Luis E. Mora M.

Groundwater Microbiology: F. Grant Ferris, Natalie Szponar and Brock A. Edwards

Spanish by Consuelo Cecilia Roldan Ahuactzin, Carmen Julia Navarro, Juan Antonio Martinez, Juan Carlos Cerda, Saul Guevera, Sergio Alerjando and Juan Batista

Groundwater Quality and Examples of Risk Interpretation Procedures: Edward McBean

Spanish by Rocio Mancillas

Groundwater Resources Development: Effects and Sustainability: Leonard F. Konikow and John D. Bredehoeft

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Pashto by Abdullah Noori
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Turkish by Huseyin Caldirak

Groundwater Velocity: J.F. Devlin

French by Rachid Ahmed Barry
Italian by Michele Rodighiero
Polish by Michał Kaczmarek
Portuguese by Anderson Paiva

Hydrogeologic Properties of Earth Materials and Principles of Groundwater Flow: William W. Woessner and Eileen P. Poeter

French by Josephine Durand

Greek by Evgenia Koltsida

Hindi by Rashi Modi

Persian by Mona Omid

Portuguese by Fábio Costa

Russian by Ainur Kokimova

Spanish by Antonio Cardona Benavides

Telugu by Vrim Murthy

Hydrogeology and Mineral Resources Development: Leslie Smith

French by Boubacar Sidiki Tonde

Portuguese by Gustavo Rodrigues Martins de Moraes

Russian by Nurlan Zhumadilov

Spanish by Carla Paola Manciatì Jaramillo

Introduction to Isotopes and Environmental Tracers as Indicators of Groundwater Flow: Peter Cook

Arabic by Salima Chaaraoui

Italian by Laura Sanna

Portuguese by Hermam Vargas

Spanish by Guadalupe Maldonado Sanchez and Daniela Calle

French by Marie-Amélie Pétré

Introduction to Karst Aquifers: Eve L. Kuniansky, Charles J. Taylor, John H. Williams and Frederick Paillet

Spanish by Marlon Ccopa

Indonesia by Ivan Taslim

Swahili by Chrispine Njega

Land Subsidence and its Mitigation: Giuseppe Gambolati and Pietro Teatini

Spanish by Penélope López

Arabic by Khalil Ibrahim Al Samarrai

Persian by Naser Rsfghi Oskuie

Large Aquifer Systems Around the World: Jac van der Gun

Spanish by Jaime J. Carrera-Hernández

Portuguese by Priscila Vanzella

Managed Aquifer Recharge: Southern Africa: Eberhard Braune and Sumaya Israel

French by Nathalie Dorfliger

Portuguese by Caroline Rodrigues

Spanish by Alberto Casillas

Septic System Impacts on Groundwater Quality: William Robertson

Arabic by Khalil Ibrahim Al Samarrai

French by Johnny Bakenga

Mongolian by Odsuren Batdelger
Spanish by Luis E. Mora M.
Thai by Srilert Chotpantararat
Vietnamese by Hue Nguyen

Stable Isotope Hydrology: Roger E. Diamond
Portuguese by Thaís de Paula & Rafael Bassetto
Spanish by Isidora Arriagada
Vietnamese by Kim Hue Nguyen

Structural Geology Applied to Fractured Aquifer Characterization: Amélia João Fernandes, Alain Rouleau, Eurípedes do Amaral Vargas Junior
Spanish by Sebastián Carreño L.
Portuguese by Sarah Shinzato

Urban Groundwater: Ken Howard
Spanish by Santiago Rocha
Chinese by Jia Keli
Persian by Naser Rsfghi Oskuie
Portuguese by Miguel Palú

Variable-Density Groundwater Flow: Vincent E.A. Post and Craig T. Simmons
Spanish by Joel Tirado-Conde

Water Well Record Databases and Their Uses: Gavin Kennedy
Spanish by Roberto Serna Jimenez

Wally and Deanna: Leanne Appleby and Peter Russell
Amharic by Abel Abebe
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Bengali by Suman Mia
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