

C. Richard Murray

Selected Bibliography on
Laboratory and Field Methods
in Ground-Water Hydrology

GEOLOGICAL SURVEY WATER-SUPPLY PAPER 1779-Z



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By A. I. JOHNSON

CONTRIBUTIONS TO THE HYDROLOGY OF THE UNITED STATES

GEOLOGICAL SURVEY WATER-SUPPLY PAPER 1779-Z



UNITED STATES DEPARTMENT OF THE INTERIOR

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GEOLOGICAL SURVEY

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CONTRIBUTIONS TO THE HYDROLOGY OF THE UNITED STATES

SELECTED BIBLIOGRAPHY ON LABORATORY AND FIELD METHODS IN GROUND-WATER HYDROLOGY

By A. I. JOHNSON

INTRODUCTION

The science of ground-water hydrology is concerned with the evaluation both of the occurrence, availability, and quality of ground water and of the interrelationship between ground water and surface water. To accomplish such evaluation, this science requires the utilization of a wide variety of laboratory and field methods—not only those unique to ground-water hydrology, but also those peculiar to such other scientific disciplines as mathematics, physics, soil mechanics, soil physics, geology, and hydraulics.

Studies of ground-water hydrology are advancing so rapidly that many scientists working in this field find it difficult to keep abreast of current literature. Young hydrologists just beginning to explore this scientific field can greatly benefit from some basic and advanced reports on methodology. Also, hydrologists from other countries who have received training in the United States have expressed interest in learning of such literature. Thus, this bibliography was prepared to make the references readily available to meet the needs discussed above.

References are listed in alphabetical order under headings representing the main topic of the publication. This selection of references emphasizes papers and book reports from the United States, although it includes a few from other countries. It is by no means complete, as the literature on the subject is so extensive that an inordinate amount of time would be required to cover it all. This list should not be construed as representing the author's recommendation of the best literature on the subject; however, it should provide a ready guide to useful source material on various phases of methodology in ground-water hydrology.

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The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that every receipt and invoice should be properly filed and indexed for easy retrieval. This is particularly crucial for businesses that deal with a large volume of transactions or those in highly regulated industries.

Next, the document addresses the issue of data security. In an era where cyber threats are on the rise, it is essential to implement robust security measures to protect sensitive financial information. This includes using secure communication channels, encrypting data, and regularly updating software to patch vulnerabilities.

The document also highlights the need for transparency and accountability. Stakeholders, including investors and regulators, have a right to know how their money is being managed. Providing clear, concise reports and being open to audits can help build trust and ensure compliance with legal requirements.

Finally, the document stresses the importance of staying up-to-date with the latest financial regulations and tax laws. The financial landscape is constantly evolving, and failing to keep abreast of these changes can lead to costly penalties and legal issues. Regular consultation with a professional advisor can help navigate these complexities effectively.

