Water Science and Engineering is an introductory text that cuts across various disciplines to provide an integrated view of the fundamental concepts of water. The book emphasizes water's properties and behavior as well as the natural global processes related to water (hydrologic cycle). It covers a wide range of issues including water's molecular structure, speculation on the origin of the World Ocean, fluid mechanics, water's role in the evolution of life and many other concepts and theories. Discussions on groundwater hydrology aid the reader in understanding environmental concerns. Significant attention in the book is paid to the practical application of knowledge on water. Throughout the text, theories and concepts are explained in language suitable for non-specialists. Plus, numerous, original illustrations by the author help visualize various concepts within the book.
### About the Author

Savely L. Polevoy (S.L. Polevoy) began his career as a hydrogeologist for Geological Survey of the former USSR in 1956 after graduation from Belorussian State University (Minsk). His extensive professional experience includes participation in numerous exploratory and estimation projects aimed at agricultural and drinking water supplies in the arid regions of Central Kazakhstan and the Northern Caucasus. In 1964, S.L. Polevoy began working for the North-Caucasian Research Institute of Natural Gas in the city of Stavropol, where he conducted research related to the utilization of geothermal energy. He received his doctorate in 1970 (Novocherkassk Polytech Institute). From 1971 to 1980, Dr. S.L. Polevoy conducted broad research involving evaluating resources of groundwater and their protection from pollution and depletion in Northern Caucasus (Russia) and Transcaucasus (Georgia). Since 1980, S.L. Polevoy has lived in the United States. Presently, he is working for the New York City Bureau of Water and Sewer Operations as Supervisor of Revision Unit. Dr. S.L. Polevoy earned inclusion in *Marquis Who’s Who in Science and Engineering 1998-1999*. S.L. Polevoy is author and coauthor of more than 50 published works and reports, all relating to his specialty. In the United States, he had written a monograph on geothermal energy, published in 1985. *Water Science and Engineering*, written and illustrated by S.L. Polevoy, was previously published in the UK in 1996.

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