

# HYDROGEOLOGY Problems with Solutions

Nandipati Subba Rao

Several situations are inevitably required in the field of hydrogeology and also in significant role in dealing with its various aspects. Further, several students are also struggling with solving numerical problems based on hydrogeology. In this book difficulty in identifying the correct concepts followed the analysis and the formulae that can be applied to it. Also, there is a dearth of books, which help the readers in solving numerical problems of varied difficulty level and enable them to have a fair grounding in the subject of hydrogeology.

The book *Hydrogeology: Problems with Solutions* fills the void in the above way, and is derived, chiefly, because of the important steps involved in solving the problems based on hydrogeology. It carefully covers the fundamental concepts, advanced principles and applications of hydrogeological tools under their interrelationship in the theoretical aspects.

The book comprises widely selected hydrogeological problems, which are typically required into two chapters, including hydrology of rivers, streamflow analysis, hydrological properties, groundwater flow, and hydrostatics, soil and design and construction, groundwater management, mineral extraction, geochemical application and geochemical quality. The practice of problems of hydrogeology in universities was a key for approach of theoretical presented with the problems and it also can enable the readers to solve it. The book bridges the gap between routine problem solving and state-of-the-practice for them.

The book is primarily intended for the undergraduate and postgraduate students of Earth Science, Civil Engineering, Water Resource Engineering, Hydrogeology and Hydrology. It also serves as an excellent handy reference for all professionals.

## KEY FEATURES

- 1. Key concepts succinctly express the models, methods and theoretical concepts related to each problem.
- 2. Necessary equations and formulae are specified.
- 3. Assumptions and theories are included, leaving no scope to refer any other book.
- 4. Bibliography includes the source of the book.

## THE AUTHOR

**NANDIPATI SUBBA RAO, Ph.D.**, is Professor (Geology) at Andhra University, Visakhapatnam, India. His research interests include hydrogeology, groundwater contamination and watershed management. He has worked on an sponsored research projects in hydrogeology funded by the Department of Science and Technology (DST), Ministry of Science (Government of India) and Central Board of Secondary Education (CBSE), besides authoring several books, 40 books in his credit and 100 research papers in various national and international journals of repute. Dr. Subba Rao has received several prestigious awards including 'National Award of Honor' (2008 Government of India), State Best Teacher Award (2014) and 'Vidya Prabh' State Scientist Award (2008), Government of Andhra Pradesh, 'National Excellence Award' (2013, Apex Foundation), 'Dr. Sarvepalli Radhakrishnan Award for the Best Academician of the Year' (2010) and 'Best Researcher Award' (2008, Andhra University), 'N.E. Chagapara Memorial Medal' (2001), 'The Geological, Mining and Metallurgical Society of India and 'Vidya Prabh' Science Talent' (2011), 'Babu Pragas Academic Award', Usha Devi of Mysore (2013), 'Tanna Best of Research' (2013), 'Best of State Research' (2013), 'India Best of Research' (2013), 'World Best of Research' (2013) and 'Ingram World Research' (2014) and several others to his credit.

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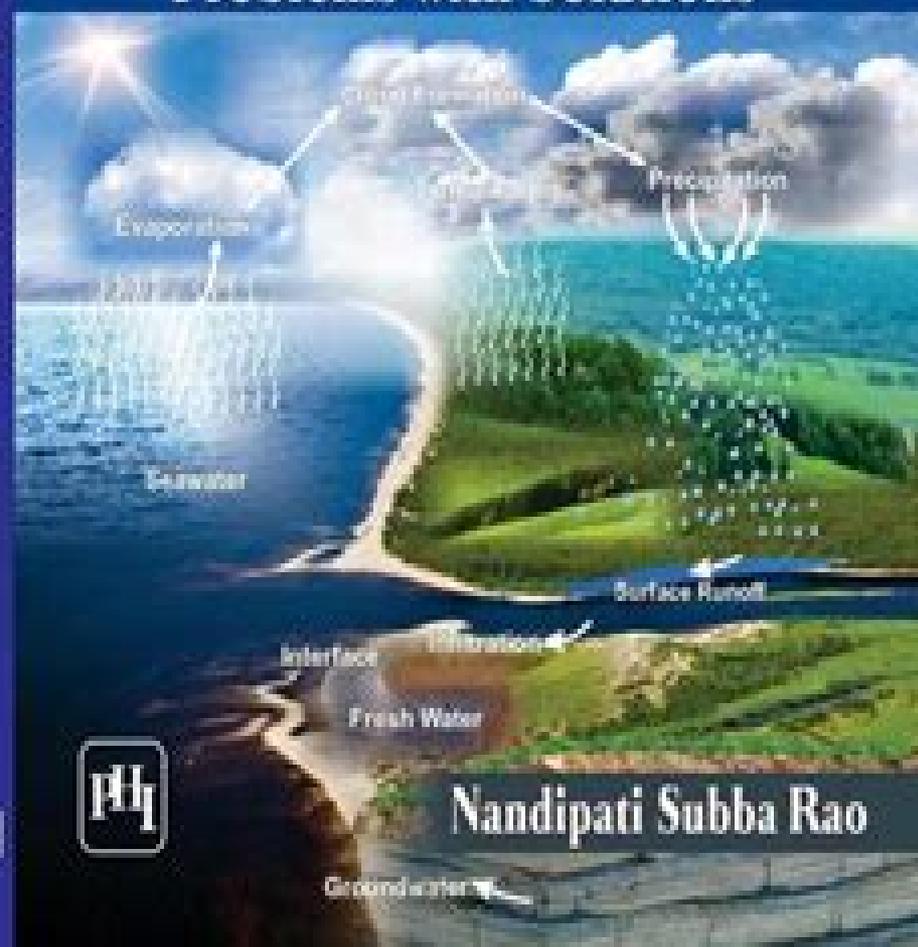
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HYDROGEOLOGY Problems with Solutions



# HYDROGEOLOGY

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# Hydrology Problems And Solutions

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## Hydrology Problems And Solutions:

*Groundwater Hydrology Problems with Emphasis on Approximate Computer Solutions* Kenneth Runesson, Nils-Erik Wiberg, 1979     *HYDROGEOLOGY: PROBLEMS WITH SOLUTIONS* NANDIPATI SUBBA RAO, 2016-12-01 Numerical calculations are inevitably required in the field of hydrogeology and play a significant role in dealing with its various aspects. As often as not students are seen struggling while solving numerical problems based on hydrogeology as they find difficulty in identifying the correct concept behind the problem and the formula that can be applied to it. Also there is a dearth of books which help the readers in solving numerical problems of varied difficulty level and enable them to have a firm grounding in the subject of hydrogeology. The book *Hydrogeology Problems with Solutions* fills this void in the finest way and as desired chiefly focuses on the sequential steps involved in solving the problems based on hydrogeology. It concisely covers the fundamental concepts, advanced principles and applications of hydrogeological tasks rather than overemphasising the theoretical aspects. The text comprises sixty solved hydrogeological problems which are logically organised into ten chapters including hydrological cycle, morphometric analysis, hydrological properties, groundwater flow, well hydraulics, well design and construction, groundwater management, seawater intrusion, groundwater exploration and groundwater quality. The practice of pedagogy of hydrogeology in yesteryears was a two tier approach of theoretical principles with toy problems and in situ case studies for research start up. This book bridges the gap between routine problem solving and state of the practice for future. The book is primarily intended for the undergraduate and postgraduate students of Earth Sciences, Civil Engineering, Water Resources Engineering, Hydrogeology and Hydrology. It also serves as an excellent handy reference for all professionals.

**KEY FEATURES** Key Concept succinctly explores the models, methods and theoretical concepts related to each problem. Necessary equations and formulae are specified. Appendices and Glossary are included leaving no scope to refer any other book. Bibliography broadens the scope of the book.

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such as groundwater flow water quality issues water balance and budget at a specific site at local and regional scales based on available geological maps and data sets Conceptualizing hydrogeology of a particular area in three dimensions and be able to predict the effects on a system when changes are imposed on it Learning outcomes are expected to include the following Overview of essential concepts encountered in hydrological systems Developing a sound understanding of concepts as well as a strong foundation for their application to real world in the field problem solving Acquisition of knowledge by learning new concepts and properties and characteristics of water Cognitive skills through thinking problem solving and use of experimental work and inferences Numerical skills through application of knowledge in basic mathematics and supply issues Student becomes responsible for their own learning through solution of assignments laboratory exercises and report writing Problem solving in engineering hydrology is primarily proposed as an addition and a supplementary guide to fundamentals of engineering hydrology Nevertheless it can be sourced as a standalone problem solving text in engineering hydrology The book targets university students and candidates taking first degree courses in any relevant engineering field or related area The document is valued to have esteemed benefits to postgraduate students and professional engineers and hydrologists Likewise it is expected that the book will stimulate problem solving learning and quicken self teaching By writing such a script it is hoped that the included worked examples and problems will guarantee that the booklet is a precious asset to student centered learning To achieve such objectives immense care was paid to offer solutions to selected problems in a well defined clear and discrete layout exercising step by step procedure and clarification of the related solution employing vital procedures methods approaches equations data figures and calculations The new edition of the book hosted the incorporation of computer model programs for the different hydrological scenarios and encountered problems presented throughout the book Developed programs were coded with Microsoft Visual Basic NET 10 programming language using Microsoft Visual Studio 2010 Professional Edition Most of the examples herein have an equivalent code listed alongside through the text To avoid repetition though some example programs were omitted whenever there was resemblance to another example elsewhere to which the reader is kindly requested to refer to **Hydrology** Daniel Webster Mead,1919

**Hydrologic Issues of the 21st Century, Ecology, Environment and Human Health** J. A. Apps,Chin-Fu Tsang,1999

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*Fundamentals of Hydraulic Engineering Systems* Fourth Edition is a very useful reference for practicing engineers who want to review basic principles and their applications in hydraulic engineering systems This fundamental treatment of engineering hydraulics balances theory with practical design solutions to common engineering problems The author examines the most common topics in hydraulics including hydrostatics pipe flow pipelines pipe networks pumps open channel flow hydraulic structures water measurement devices and hydraulic similitude and model studies Chapters dedicated to groundwater deterministic hydrology and statistical hydrology make this text ideal for courses designed to cover hydraulics and hydrology

in one semester      *Curricula and Syllabi in Hydrology* ,1972      **Selected Water Resources Abstracts** ,1972      **Archives of Medical Hydrology** ,1928      **Quantitative Hydrogeology** Ghislain de Marsily,1986 This book attempts to combine two separate themes a description of one of the links in the chain of the water cycle inside the earth s crust i e the subsurface flow and the quantification of the various types of this flow obtained by applying the principles of fluid mechanics in porous media The first part is the more descriptive and geological of the two It deals with the concept of water resources which then leads us on to other links in the cycle rainfall infiltration evaporation runoff and surface water resources The second part is necessary to quantify groundwater resources It points the way to other applications such as solutions to civil engineering problems including drainage and compaction and transport problems in porous media including aquifer pollution by miscible fluids multiphase flow of immiscible fluids and heat transfer in porous media i e geothermal problems However the qualitative and the quantitative aspects are not treated separately but combined and blended together just as geology and hydrology are woven together in hydrogeology      *Physical Problems and Their Solutions* Anatole Alexandre Bourgougnon,1897      **Transactions of the ASAE.** American Society of Agricultural Engineers,1987 Soil and water edition of Transactions of the ASAE contains all articles approved by the ASAE Soil and Water Division editor for publication in the general edition and constitutes the Division s Transactions      **Selected Water Resources Abstracts** ,1991  
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