



# Magnetic Resonance Imaging for Groundwater (FOCUS Series)

*Anatoly Legtchenko*

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## **Magnetic Resonance Imaging for Groundwater (FOCUS Series) Anatoly Legtchenko**

This book presents the basics of the non-invasive geophysical method for groundwater investigation, called Magnetic Resonance Sounding (MRS) or Surface Nuclear Magnetic Resonance (SNMR), and its practical application to the problems of groundwater localization and aquifer characterization. The method is based on the nuclear magnetic resonance (NMR) phenomenon and is selectively sensitive to groundwater. The main aims of the author are to teach the reader the basic principles of the method as well as to formulate consistent approximate models, leading to reasonably simple inverse problems.

Containing an extensive bibliography, numerous practical and numerical examples as well as a detailed presentation of the nuts and bolts of the method based on the long-term experience of SNMR development and practical use, this book is useful for students, scientists and professional engineers working in the field of hydrogeophysics and hydrogeology.

### Contents

1. SNMR Imaging for Groundwater.
2. The Basics of NMR.
3. Forward Modeling.
4. Inversion.
5. Link Between SNMR and Aquifer Parameters.

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