The continuous rise in global temperature affecting the hydrological cycle has a substantial impact on surface and subsurface water resources. The variation in solar radiation, plate movements, and volcanic activities also contribute to ongoing climate change. In addition, human intervention plays a major role in this process.

Climate change is caused by several factors, including variations in the Earth's orbit, the tilt of its axis, and the greenhouse effect. For a number of years, geophysical methods of subsurface surveys have been employed in geology, locating petroleum and ore bodies, ground water, soundness and faulting of rock formations, depths of bed rock, and oil well logging. The electrical device utilizes the principles such as the passage of sound vibration, etc.

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This handbook is primarily a description of the methodology of using earth resistivity techniques for locating cavities. Only a small portion of the content focuses on the characterization of rock mass; planning, investigation and analysis of tunnels; shafts and inclined tunnels; and tunnelling equipment.

This is a collection of conference papers which discuss construction methods in tunnelling. Subjects studied include; engineering classification and determination of rock mass properties, digital signal processing in geophysics, and the evaluation of rock mass characteristics. The book also includes chapters on hydraulic conductivity and its importance, hydraulic conductivity and plant systems, determination by mathematical and laboratory methods, determination of porosity and permeability, and field methods.

The book presents comprehensive reviews of new methods and techniques used in the field of research into hydraulic conductivity. The sections in the book are: Hydraulic conductivity of rocks, methods and technologies, field and laboratory techniques, and determination of hydraulic conductivity. The book concludes with a chapter on the future of hydraulic conductivity research and its applications.

The book is aimed at researchers, engineers, and students in the field of geophysics, hydrogeology, and environmental engineering. It is also useful for practitioners and policymakers who need to understand the importance of hydraulic conductivity in various applications.

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