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Autore	Ewert Friedrich-Karl
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Descrizione fisica	1 online resource (XI, 234 p. 155 illus.)
Collana	Professional Practice in Earth Sciences, , 2364-0081
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Soggetti	Geotechnical engineering Geology Engineering geology Buildings - Design and construction Geotechnical Engineering and Applied Earth Sciences Geoengineering Building Construction and Design
Lingua di pubblicazione	Inglese
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Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Introduction -- Water Flow in Rock: Geometry of Water Conducting Paths and Lugeon-values -- Examples of Grouting Programs -- Permeability Testing by Means of Water Pressure Tests -- Hydrofracturing of Latent Discontinuities in Rock and Implications for Successful and Economical Execution of Grouting -- Groutability and Grouting of Rock -- Hydrogeological Regime Around Dams and Reservoirs -- Doubts in GIN Principle Confirmed.
Sommario/riassunto	This book focuses on the permeability of the foundation of dams, how to determine their state and how to tighten permeable rock to achieve safe foundations for large dams. It includes theoretical fundamentals as well as lessons learned in their application in practical construction work in eminent projects. It also discusses aspects such as the permeability of the rock mass at the dam site, including the hydraulic characteristics of water conducting openings and their effect on the reliability of water pressure test (WPT) results; the influence of particular geological factors on the hydrogeological regime at the site,

as well as the hydrofracturing behavior and individual groutability; and the relationship between quantities of grout takes and the degree of impermeabilization.
