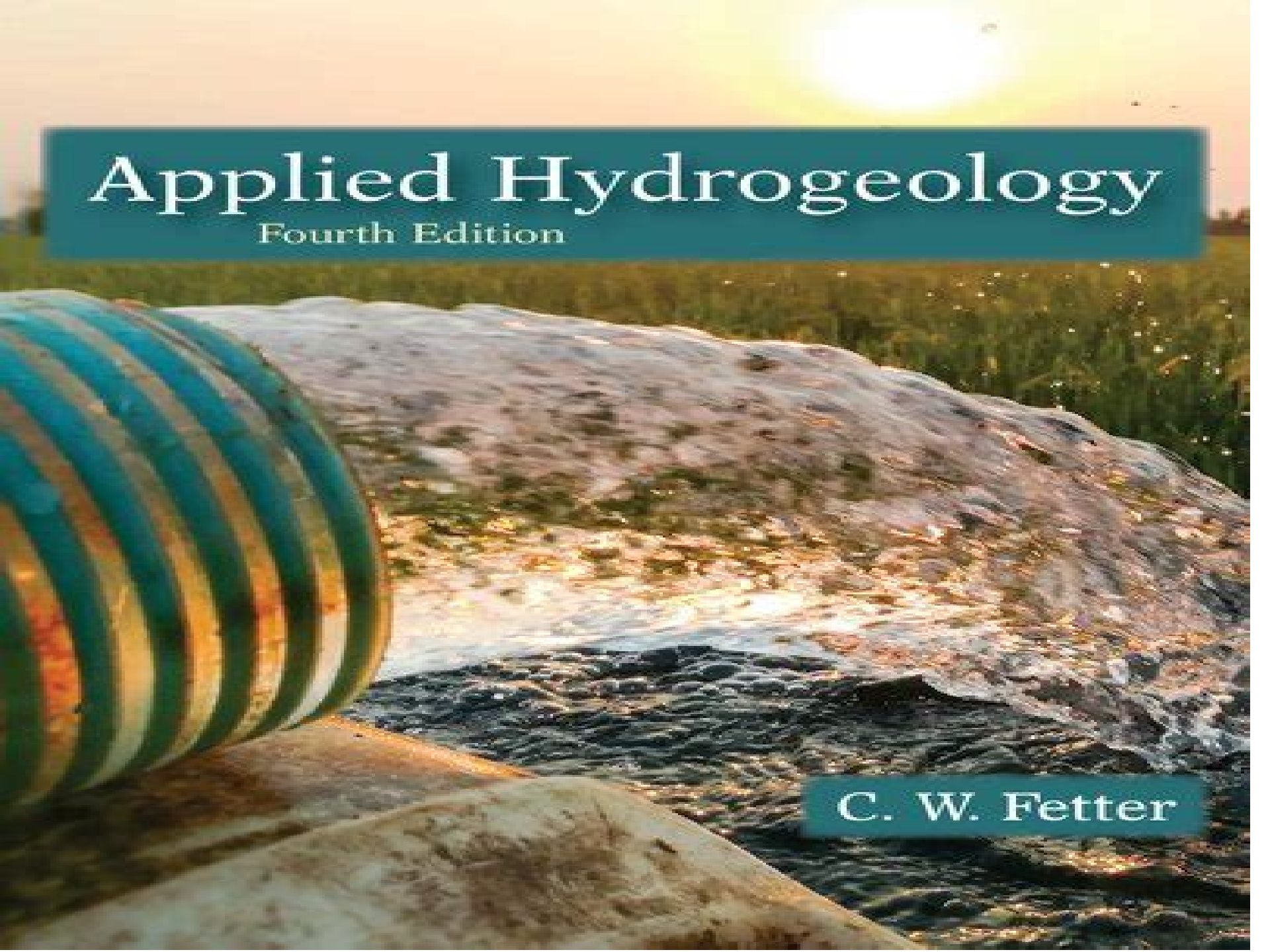




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**Elizabeth M. Shaw, Keith J. Beven, Nick
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M. Shaw, Keith J. Beven, Nick A. Chappell, Rob Lamb, 2010-07-30 Hydrology in Practice is an excellent and very successful introductory text for engineering hydrology students who go on to be practitioners in consultancies the Environment Agency and elsewhere This fourth edition of Hydrology in Practice while retaining all that is excellent about its predecessor by Elizabeth M Shaw replaces the material on the Flood Studies Report with an equivalent section on the methods of the Flood Estimation Handbook and its revisions Other completely revised sections on instrumentation and modelling reflect the many changes that have occurred over recent years The updated text has taken advantage of the extensive practical experience of the staff of JBA Consulting who use the methods described on a day to day basis Topical case studies further enhance the text and the way in which students at undergraduate and MSc level can relate to it The fourth edition will also have a wider appeal outside the UK by including new material on hydrological processes which also relate to courses in geography and environmental science departments In this respect the book draws on the expertise of Keith J Beven and Nick A Chappell who have extensive experience of field hydrological studies in a variety of different environments and have taught undergraduate hydrology courses for many years Second and final year undergraduate and MSc students of hydrology in engineering environmental science and geography departments across the globe as well as professionals in environmental protection agencies and consultancies will find this book invaluable It is likely to be the course text for every undergraduate MSc hydrology course in the UK and in many cases overseas too

Arid Lands Water Evaluation and Management Robert Maliva, Thomas Missimer, 2012-06-09 A large part of the global population lives in arid lands which have low rainfall and often lack the water required for sustainable population and economic growth This book presents a comprehensive description of the hydrogeology and hydrologic processes at work in arid lands It describes the techniques that can be used to assess and manage the water resources of these areas with an emphasis on groundwater resources including recent advances in hydrologic evaluation and the differences between how aquifer systems behave in arid lands versus more humid areas Water management techniques are described and summarized to show how a more comprehensive approach to water management is required in these areas including the need to be aware of cultural sensitivities and conditions unique to many arid regions The integration of existing resources with the addition of new water sources such as desalination of brackish water and seawater along with reusing treated wastewater will be required to meet future water supply needs Also changing climatic conditions will force water management systems to be more robust so that future water supply demands can be met as droughts become more intense and rainfall events become more intense A range of water management techniques are described and discussed in order to illustrate the methods for integrating these measures within the context of arid lands conditions

Hydrogeology Alain Dassargues, 2018-09-03 This text combines the science and engineering of hydrogeology in an accessible innovative style As well as providing physical descriptions and characterisations of hydrogeological processes it also sets out the corresponding mathematical equations for groundwater flow and solute heat transport

calculations And within this the methodological and conceptual aspects for flow and contaminant transport modelling are discussed in detail This comprehensive analysis forms the ideal textbook for graduate and undergraduate students interested in groundwater resources and engineering and indeed its analyses can apply to researchers and professionals involved in the area

Groundwater Research and Issues William B. Porter, Charles E. Bennington, 2008 Groundwater is water located beneath the ground surface in soil pore spaces and in the fractures of lithologic formations A unit of rock or an unconsolidated deposit is called an aquifer when it can yield a usable quantity of water The depth at which soil pore spaces or fractures and voids in rock become fully saturated with water is called the water table Groundwater is recharged from and eventually flows to the surface naturally natural discharge often occurs at springs and seeps streams and can form oases or wetlands Groundwater is also often withdrawn for agricultural municipal and industrial use by constructing and operating extraction wells The study of the distribution and movement of groundwater is hydrogeology also called groundwater hydrology Typically groundwater is thought of as liquid water flowing through shallow aquifers but technically it can also include soil moisture permafrost frozen soil immobile water in very low permeability bedrock and deep geothermal or oil formation water Groundwater is hypothesised to provide lubrication which can possibly aid faults to move This book presents important research in the field

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