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Autore	Wang Jun-Jie
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Nota di contenuto	Cover; Title Page; Copyright; Contents; About the Author; Preface; Acknowledgments; Nomenclature; Chapter 1 Introduction; 1.1 Types of Embankment Dam; 1.2 Hydraulic Fracturing; 1.3 Failure of the Teton Dam; 1.4 Erosion Damage of the Balderhead Dam; 1.5 Leakage of the Hyttejuvet Dam; 1.6 Self-Healing of Core Cracks; 1.7 Technical Route for Present Study; 1.8 Summary; References; Chapter 2 Review of Literature; 2.1 Introduction; 2.2 Theories of Hydraulic Fracturing; 2.2.1 Theories Based on Circular Cavity Expansion Theory; 2.2.2 Theories Based on Spherical Cavity Expansion Theory 2.2.3 Theories Based on True Triaxial Stress State Analyses 2.2.4 Empirical Formulas; 2.2.5 Theories Based on Fracture Mechanics; 2.3 Laboratory Experimental Studies on Hydraulic Fracturing; 2.3.1 Cylindrical Sample; 2.3.2 Rectangular Sample; 2.4 Field Testing Studies of Hydraulic Fracturing; 2.5 Model Testing Studies of Hydraulic Fracturing; 2.6 Numerical Simulations of Hydraulic Fracturing; 2.7 Analysis Method for Hydraulic Fracturing; 2.8 Summary; References; Chapter 3 Conditions and Mechanisms of Hydraulic Fracturing; 3.1 Introduction; 3.2 Conditions for Hydraulic Fracturing

3.2.1 Crack Located at the Upstream Face of Core 3.2.2 Low Permeability of Core Soil; 3.2.3 Rapid Impounding; 3.2.4 Unsaturated Soil Core; 3.3 Mechanical Mechanism of Hydraulic Fracturing; 3.4 Modes of Fracture in Fracture Mechanics; 3.5 Summary; References; Chapter 4 Fracture Toughness and Tensile Strength of Core Soil; 4.1 Introduction; 4.2 Tested Soil; 4.3 Testing Technique on Fracture Toughness; 4.3.1 Testing Method; 4.3.2 Apparatus; 4.3.3 Testing Procedures; 4.3.4 Testing Program; 4.4 Testing Results on Fracture Toughness; 4.4.1 Suitability of Linear Elastic Fracture Mechanics 4.4.2 Influence Factors on Fracture Toughness 4.5 Testing Technique on Tensile Strength; 4.5.1 Testing Method and Apparatus; 4.5.2 Calculation of Tensile Strength; 4.5.3 Testing Procedures; 4.5.4 Testing Program; 4.6 Testing Results on Tensile Strength; 4.6.1 Water Content; 4.6.2 Dry Density; 4.6.3 Preconsolidation Pressure; 4.7 Relationship between Fracture Toughness and Tensile Strength; 4.8 Discussions; 4.8.1 Soils from References; 4.8.2 Rocks from References; 4.9 Summary; References; Chapter 5 Fracture Failure Criteria for Core Soil under I-II Mixed Modes; 5.1 Introduction 5.2 Experimental Technique 5.2.1 Loading Assembly; 5.2.2 Calculation Theory; 5.2.3 Testing Procedures; 5.2.4 Test Program; 5.3 Testing Results; 5.4 Fracture Failure Criteria; 5.5 Discussions; 5.5.1 Testing Technique; 5.5.2 Failure Criteria; 5.6 Summary; References; Chapter 6 Hydraulic Fracturing Criterion; 6.1 Introduction; 6.2 Failure Criterion; 6.2.1 Simplification of a Crack; 6.2.2 Criterion; 6.3 Cubic Specimen with a Crack; 6.3.1 Calculation of K_I ; 6.3.2 Calculation of K_{II} ; 6.3.3 Calculation of $(K_I^2 + K_{II}^2)^{0.5}$; 6.3.4 Dangerous Crack Angle; 6.4 Core with a Transverse Crack 6.4.1 Calculation of K_I

Sommario/riassunto

Presents a systematic and comprehensive study of hydraulic fracturing, original in its concentration of core soil problems. There have been a number of well-studied cases in which dams have failed or been damaged by concentrated leaks for no apparent cause. In some of these experiences, investigators concluded that differential settlement cracks were the probable causes, even though no cracks were seen on the surface. In these examples, it was not determined whether the crack was open before the reservoir filled or whether it might have opened after

2. Record Nr.	UNINA9910254567003321
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Soggetti	Microsoft software Microsoft .NET Framework Computer programming Microsoft and .NET Web Development
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	1. Understanding Docker -- 2. Docker Quick Reference -- 3. Getting Ready -- 4. Docker Images and Containers -- 5. Docker Volumes and Networks -- 6. Docker Compose -- 7. Docker Swarms -- 8. Containerized Development.
Sommario/riassunto	Find out how to use Docker in your ASP.NET Core MVC applications, and how containers make it easier to develop, deploy and manage those applications in production environments. Packed with examples and practical demonstrations, this book will help you deploy even large-scale, cross-platform web applications from development into production. Best-selling author Adam Freeman takes you on a whirlwind tour of Docker, from creating a consistent development environment for your team to deploying a project and scaling it up in production. By the end of the book, you will have a solid understanding of what Docker does, how it does it and why it is useful when developing and deploying ASP.NET Core MVC applications. What You Will Learn Gain a solid understanding of Docker: what it is, and why you should be using it for your ASP.NET Core MVC applications Use Docker to create a development platform for ASP.NET Core MVC so that applications behave consistently across development and production

Use Docker to test, deploy and manage ASP.NET Core MVC containers
Use Docker Swarms to scale up applications to cope with large workloads.
