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2000 Symposium Geological Survey of Canada, Open File 2824
Geological Core Analysis Logging the Chalk Front-end Development
with ASP.NET Core, Angular, and Bootstrap Site Characterization
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Following the success of the Drilling Data Handbook, Editions Technip has designed this book to cover the well logging principles and its applications. This well logging handbook first edition starts with a summary on geology and petrophysics focusing mainly on its applications. The wide range of logging measurements and applications is covered through eleven sections, each of them organized into four chapters. All in all, this is a strongly-bound, user-friendly book with useful information for those involved in all aspects and applications of well-logging. The paging is notched and externally labelled alphabetically to allow a quick access. Describes the basic features of Fedora and offers instructions concerning its use, administration, network and server set-up, and its compatibility with new technology. "TRB's National Cooperative Highway Research Program Report 747: Guide for Conducting Forensic Investigations of Highway Pavements explores a process for conducting forensic investigations of pavements that is designed to help understand the reasons behind premature failures or exceptionally good performance. The process also allows for the

collection of data for use in developing or calibrating performance-prediction models. The report includes example forms and checklists for use during the conduct of an investigation. These forms can be modified to suit the particular requirements and procedures for the agency. The example forms are included with the print version of the report in CD-ROM format." --Publisher description. This book is written as a practical field manual to effective. Each geologist has to develop his/her own techniques and will ultimately be judged on their own. It is also hoped that it will serve as a text reference for students in Applied Geology courses of universities and colleges. The book 'right' way of doing anything is the way that aims to outline some of the practical skills that locates ore in the quickest and most cost-effective manner. It is preferable, however, for an individual geologist to develop his/her own method of operation book, rather than as a text on geological or ore deposit theory. procedures which experience has shown to work. An explorationist is a professional who search well and which are generally accepted in industry as good exploration practice. The chapters of the book approximately follow this is the only available word to describe the low the steps which a typical exploration professional would go through. In Chapter 1, the author defines economic mineralization. This hand guide in the Gulf Drilling Guides series offers practical techniques that are valuable to petrophysicists and engineers in their day-to-day jobs. Based on the author's many years of experience working in oil companies around the world, this guide is a comprehensive collection of techniques and rules of thumb that work. The primary functions of the drilling or petroleum engineer are to ensure that the right operational decisions are made during the course of drilling and testing a well, from data gathering, completion and testing, and thereafter to provide the necessary parameters to enable an accurate static and dynamic model of the reservoir to be constructed. This guide supplies these, and many other, answers to their everyday problems.

There are chapters on NMR logging, core analysis, sampling, and interpretation of the data to give the engineer a full picture of the formation. There is no other single guide like this, covering all aspects of well logging and formation evaluation, completely updated with the latest techniques and applications. · A valuable reference dedicated solely to well logging and formation evaluation. · Comprehensive coverage of the latest technologies and practices, including, troubleshooting for stuck pipe, operational decisions, and logging contracts. · Packed with money-saving and time saving strategies for the engineer working in the field. The professional's guide to C# 7, with expert guidance on the newest features Professional C# 7 and .NET Core 2.0 provides experienced programmers with the information they need to work effectively with the world's leading programming language. The latest C# update added many new features that help you get more done in less time, and this book is your ideal guide for getting up to speed quickly. C# 7 focuses on data consumption, code simplification, and performance, with new support for local functions, tuple types, record types, pattern matching, non-nullable reference types, immutable types, and better support for variables. Improvements to Visual Studio will bring significant changes to the way C# developers interact with the space, bringing .NET to non-Microsoft platforms and incorporating tools from other platforms like Docker, Gulp, and NPM. Guided by a leading .NET expert and steeped in real-world practicality, this guide is designed to get you up to date and back to work. With Microsoft speeding up its release cadence while offering more significant improvement with each update, it has never been more important to get a handle on new tools and features quickly. This book is designed to do just that, and more—everything you need to know about C# is right here, in the single-volume resource on every developer's shelf. Tour the many new and enhanced features packed into C# 7 and .NET Core 2.0 Learn how the latest Visual Studio update makes developers' jobs easier Streamline your workflow with a new focus on code simplification and performance enhancement Delve into improvements made for localization, networking, diagnostics, deployments, and more Whether you're entirely new to C# or just transitioning to C# 7, having a solid grasp of the latest features allows you to exploit the language's full functionality to create

robust, high-quality apps. Professional C# 7 and .NET Core 2.0 is the one-stop guide to everything you need to know. This carefully targeted and rigorous new textbook introduces engineering students to the fundamental principles of applied Earth science, highlighting how modern soil and rock mechanics, geomorphology, hydrogeology, seismology and environmental geochemistry affect geotechnical and environmental practice. Key geological topics of engineering relevance including soils and sediments, rocks, groundwater, and geologic hazards are presented in an accessible and engaging way. A broad range of international case studies add real-world context, and demonstrate practical applications in field and laboratory settings to guide site characterization. End-of-chapter problems are included for self-study and evaluation, and supplementary online materials include electronic figures, additional examples, solutions, and guidance on useful software. Featuring a detailed glossary introducing key terminology, this text requires no prior geological training and is essential reading for senior undergraduate or graduate students in civil, geological, geotechnical and geoenvironmental engineering. It is also a useful reference and bridge for Earth science graduates embarking on engineering geology courses.

Architect your .NET applications by breaking them into really small pieces - microservices -using this practical, example-based guide. Key Features Start your microservices journey and get a broader perspective on microservices development using C# 7.0 with .NET Core 2.0 Build, deploy, and test microservices using ASP.Net Core, ASP.NET Core API, and Microsoft Azure Cloud Get the basics of reactive microservices Book Description The microservices architectural style promotes the development of complex applications as a suite of small services based on business capabilities. This book will help you identify the appropriate service boundaries within your business. We'll start by looking at what microservices are and their main characteristics. Moving forward, you will be introduced to real-life application scenarios; after assessing the current issues, we will begin the journey of transforming this application by splitting it into a suite of microservices using C# 7.0 with .NET Core 2.0. You will identify service boundaries, split the application into multiple microservices, and define service contracts. You will find out how to configure, deploy, and monitor microservices,

and configure scaling to allow the application to quickly adapt to increased demand in the future. With an introduction to reactive microservices, you'll strategically gain further value to keep your code base simple, focusing on what is more important rather than on messy asynchronous calls. What you will learn Get acquainted with Microsoft Azure Service Fabric Compare microservices with monolithic applications and SOA Learn Docker and Azure API management Define a service interface and implement APIs using ASP.NET Core 2.0 Integrate services using a synchronous approach via RESTful APIs with ASP.NET Core 2.0 Implement microservices security using Azure Active Directory, OpenID Connect, and OAuth 2.0 Understand the operation and scaling of microservices in .NET Core 2.0 Understand the key features of reactive microservices and implement them using reactive extensions Who this book is for This book is for .NET Core developers who want to learn and understand the microservices architecture and implement it in their .NET Core applications. It's ideal for developers who are completely new to microservices or just have a theoretical understanding of this architectural approach and want to gain a practical perspective in order to better manage application complexities. A much-needed, precise and practical treatment of a key topic in the energy industry and beyond, Applied Concepts in Fractured Reservoirs is an invaluable reference for those in both industry and academia Authored by renowned experts in the field, this book covers the understanding, evaluation, and effects of fractures in reservoirs. It offers a comprehensive yet practical discussion and description of natural fractures, their origins, characteristics, and effects on hydrocarbon reservoirs. It starts by introducing the reader to basic definitions and classifications of fractures and fractured reservoirs. It then provides an outline for fractured-reservoir characterization and analysis, and goes on to introduce the way fractures impact operational activities. Well organized and clearly illustrated throughout, Applied Concepts in Fractured Reservoirs starts with a section on understanding natural fractures. It looks at the different types, their dimensions, and the mechanics of fracturing rock in extension and shear. The next section provides information on measuring and analyzing fractures in reservoirs. It covers: logging core for fractures; taking, measuring, and analyzing

fracture data; new core vs. archived core; CT scans; comparing fracture data from outcrops, core, and logs; and more. The last part examines the effects of natural fractures on reservoirs, including: the permeability behavior of individual fractures and fracture systems; fracture volumetrics; effects of fractures on drilling and coring; and the interaction between natural and hydraulic fractures. Teaches readers to understand and evaluate fractures Compiles and synthesizes various concepts and descriptions scattered in literature and synthesizes them with unpublished oil-field observations and data, along with the authors' own experience Bridges some of the gaps between reservoir engineers and geologists Provides an invaluable reference for geologists and engineers who need to understand naturally fractured reservoirs in order to efficiently extract hydrocarbons Illustrated in full color throughout Companion volume to the Atlas of Natural and Induced Fractures in Core Build robust modern web applications using .NET 5, Entity Framework Core, and Angular 11 Key Features Updated with the latest features and additions in ASP.NET Core 5 and Angular 11 Design, build, and deploy a Single Page Application or Progressive Web App Adopt a full stack approach to handle data management, Web APIs, application design, testing, SEO, security, and deployment Book Description Learning full-stack development calls for knowledge of both front-end and back-end web development. ASP.NET Core 5 and Angular, Fourth Edition will enhance your ability to create, debug, and deploy efficient web applications using ASP.NET Core and Angular. This revised edition includes coverage of the Angular routing module, expanded discussion on the Angular CLI, and detailed instructions for deploying apps on Azure, as well as both Windows and Linux. Taking care to explain and challenge design choices made throughout the text, Valerio teaches you how to build a data model with Entity Framework Core, alongside utilizing the Entity Core Fluent API and EntityTypeConfiguration class. You'll learn how to fetch and display data and handle user input with Angular reactive forms and front-end and back-end validators for maximum effect. Later, you will perform advanced debugging and explore the unit testing features provided by xUnit.net (.NET 5) and Jasmine, as well as Karma for Angular. After adding authentication and authorization to your apps, you will explore

progressive web applications (PWAs), learning about their technical requirements, testing, and converting SWAs to PWAs. By the end of this book, you will understand how to tie together the front end and back end to build and deploy secure and robust web applications. What you will learn

- Implement a web API interface with ASP.NET Core and consume it with Angular using RxJS observables
- Set up an SQL database server using a local instance or a cloud data store
- Perform C# and TypeScript debugging using Visual Studio 2019
- Create TDD and BDD unit tests using xUnit, Jasmine, and Karma
- Perform DBMS structured logging using third-party providers such as SeriLog
- Deploy web apps to Windows and Linux web servers, or Azure App Service, using IIS, Kestrel, and nginx

Who this book is for This book is for experienced ASP.NET developers who already possess some familiarity with ASP.NET Core and Angular and are looking to learn how to use them effectively together. The fully documented code samples (also available on GitHub) and the step-by-step implementation tutorials make this book easy to follow. Completely revised and updated, the Second Edition of Site Assessment and Remediation Handbook provides coverage of new procedures and technologies for an expanded range of site investigations. With over 700 figures, tables, and flow charts, the handbook is a comprehensive resource for engineers, geologists, and hydrologists conducting site investigation, and a one-stop, technical reference for environmental attorneys. Learn how to build web applications efficiently using ASP.NET Core 5 with the C# programming language and related frameworks

- Key Features
- Build web apps and services and cross-platform applications using .NET and C#
- Understand different web programming concepts with the help of real-world examples
- Explore the new features and APIs in ASP.NET Core 5, EF Core, Visual Studio, and Blazor

Book Description ASP.NET Core 5 for Beginners is a comprehensive introduction for those who are new to the framework. This condensed guide takes a practical and engaging approach to cover everything that you need to know to start using ASP.NET Core for building cloud-ready, modern web applications. The book starts with a brief introduction to the ASP.NET Core framework and highlights the new features in its latest release, ASP.NET Core 5. It then covers the improvements in cross-platform

support, the view engines that will help you to understand web development, and the new frontend technologies available with Blazor for building interactive web UIs. As you advance, you'll learn the fundamentals of the different frameworks and capabilities that ship with ASP.NET Core. You'll also get to grips with securing web apps with identity implementation, unit testing, and the latest in containers and cloud-native to deploy them to AWS and Microsoft Azure. Throughout the book, you'll find clear and concise code samples that illustrate each concept along with the strategies and techniques that will help to develop scalable and robust web apps. By the end of this book, you'll have learned how to leverage ASP.NET Core 5 to build and deploy dynamic websites and services in a variety of real-world scenarios. What you will learn

Explore the new features and APIs introduced in ASP.NET Core 5 and Blazor

Put basic ASP.NET Core 5 concepts into practice with the help of clear and simple samples

Work with Entity Framework Core and its different workflows to implement your application's data access

Discover the different web frameworks that ASP.NET Core 5 offers for building web apps

Get to grips with the basics of building RESTful web APIs to work with real data

Deploy your web apps in AWS, Azure, and Docker containers

Work with SignalR to add real-time notifications to your app

Who this book is for

This book is for developers who want to learn how to develop web-based applications using the ASP.NET Core framework. Familiarity with the C# language and a basic understanding of HTML and CSS is required to get the most out of this book.

This book offers a compact guide to geological core analysis, covering both theoretical and practical aspects of geological studies of reservoir cores. It equips the reader with the knowledge needed to precisely and accurately analyse cores. The book begins by providing a description of a coring plan, coring, and core sampling and continues with a sample preparation for geological analysis. It then goes on to explain how the samples are named, classified and integrated in order to understand the geological properties that dictate reservoir characteristics. Subsequently, porosity and permeability data derived from routine experiments are combined to define geological rock types and reduce reservoir heterogeneity. Sequence stratigraphy is introduced for reservoir zonation. Core log preparation is also covered, allowing

reservoirs to be analysed even more accurately. As the study of core samples is the only way to accurately gauge reservoir properties, this book provides a useful guide for all geologists and engineers working with subsurface samples. Continental Scientific Drilling Project of the Cretaceous Songliao Basin (SK-1) in China is the first reference to provide the results of the first part of scientific drilling project at the Songliao Basin in the Daqing oil field, the largest known oil field in China. The project has two major objectives: one is to correlate the oceanic and continental records and determine the principal drivers of climate change in order to assist in future climate change predictions and its influence on the earth's environment. The second is to further test the theory of terrestrial genesis of hydrocarbons, and to explore the formation of intra-continental sedimentary basins, as many are major hydrocarbon provinces. In addition, this project provides the scientific basis for exploration of the Daqing Oilfields, which have a yearly production of forty million tons of oil. The world is entering a new exciting era to explore in which scientific drilling will provide a quantum leap in our understanding of its deep earth and history. Continental Scientific Drilling Project of the Cretaceous Songliao Basin (SK-1) in China will play an important role in promoting scientific drilling and earth system science research. Summarizes the geological background, seismic profile, and tectonic evolution of the Songliao Basin Provides detailed information on drilling technology of SK-1, which successfully obtained ~2500m core with a recovery rate of ~95% Includes detailed core information: stratigraphic charts, core photographs, and core photograph identification tables This Second Edition has been brought up-to-date and incorporates modern developments in coring techniques and core handling. All aspects of cores are covered including cutting and recovery; wellsite handling and logging; recognition of coring damage; laboratory analysis; logging and sampling; preservation and storage. Logging and interpretation are dealt with in detail, encompassing structural and engineering investigations in addition to sedimentology. Emphasis is laid throughout on those features most important to the economical development of geological resources. -- Unconventional Petroleum Geology, Second Edition presents the latest research results of global conventional and unconventional

petroleum exploration and production. The first part covers the basics of unconventional petroleum geology, its introduction, concept of unconventional petroleum geology, unconventional oil and gas reservoirs, and the origin and distribution of unconventional oil and gas. The second part is focused on unconventional petroleum development technologies, including a series of technologies on resource assessment, lab analysis, geophysical interpretation, and drilling and completion. The third and final section features case studies of unconventional hydrocarbon resources, including tight oil and gas, shale oil and gas, coal bed methane, heavy oil, gas hydrates, and oil and gas in volcanic and metamorphic rocks. Provides an up-to-date, systematic, and comprehensive overview of all unconventional hydrocarbons

Reorganizes and updates more than half of the first edition content, including four new chapters Includes a glossary on unconventional petroleum types, including tight-sandstone oil and gas, coal-bed gas, shale gas, oil and gas in fissure-cave-type carbonate rocks, in volcanic reservoirs, and in metamorphic rocks, heavy crude oil and natural bitumen, and gas hydrates Presents new theories, new methods, new technologies, and new management methods, helping to meet the demands of technology development and production requirements in unconventional plays This book discusses the development of API Services using GraphQL on top of the ASP.NET Core framework.

GraphQL is a language for querying or manipulating resources or data against data sources such as databases. In addition, graphql also provides a runtime for processing queries and other graphql objects. The language and runtime were originally built by Facebook in 2012 to be used internally. In 2015 graphql began to be published in open source to the public. GraphQL provides another alternative for developing api services besides those based on REST. Several leading companies including Facebook itself already use graphql such as github, pinterest, airbnb, paypal, twitter, and others. There are several things that distinguish graphql from rest services, including:

- GraphQL provides data according to your needs, nothing less and nothing more. Output data properties or columns can be determined dynamically, in contrast to rest services that have determined data from any column to be displayed.
- GraphQL provides one endpoint for all resources or all data provided,

in contrast to rest api that provides resources or data through multiple endpoints or multiple controllers. - The data response displayed from graphql will be structurally the same as the data structure requested by the client. - GraphQL can provide multiple resources or data in one request. Rest services should provide it with multiple urls. The topics described in this book start from the explanation of graphql & asp.net core architecture; installation of the necessary libraries; creation of asp.net core web in visual studio; use of ef core for database access sql server & postgresql; use of queries and mutations; use of tools for graphql access; use of logging and data loaders; real-time services with subscription; implementation of asp.net core identity; use of jwt authentication; deployment; and many more. The discussion in this book is carried out in stages, so that it is hoped that after studying it, readers will have sufficient skills or abilities to build GraphQL-based services with ASP.NET Core according to the needs in the field. Hopefully this book can be another alternative as a learning resource for exercises, tutorials, or a reference for those who want to learn the backend programming of GraphQL API Services with ASP.NET Core that is connected to SQL Server and PostgreSQL databases. Entity Framework Core in Action, Second Edition teaches you to write flawless database interactions for .NET applications. Following relevant examples from author Jon Smith's extensive experience, you'll progress quickly from EF basics to advanced techniques. In addition to the latest EF features, this book addresses performance, security, refactoring, and unit testing. This updated edition also contains new material on NoSQL databases. This volume addresses some of the problems of core-log integration encountered by scientists and engineers from both industry and academia. Core and log measurements provide crucial information about subsurface formations. Their usage, either for integration or calibration, is complicated by the different measurement methods employed, different volumes of formation analysed and, in turn, the heterogeneity of the formations. While the problems of comparing core and log data are only too well known, the way in which these data can be most efficiently combined is not at all clear in most cases. In recent years there has been increased interest in this problem, both in industry and academia, due to developments in technology which offer access to new

types of information and, in the case of industry, pressure for improved reservoir models and hydrocarbon recovery. The application of new numerical methods for analysing and modelling core and log data, the availability of core scanning facilities, and novel core measurements in both two and three dimensions, currently provide a framework for the development of new and exciting approaches to core-log integration. The contributions within Core-Log Integration geologically range from hydrocarbon-bearing sediments in the North Sea to the volcanic rocks that form the upper part of the oceanic crust. Make log processing a real asset to your organization with powerful and free open source tools. In Logging in Action you will learn how to: Deploy Fluentd and Fluent Bit into traditional on-premises, IoT, hybrid, cloud, and multi-cloud environments, both small and hyperscaled Configure Fluentd and Fluent Bit to solve common log management problems Use Fluentd within Kubernetes and Docker services Connect a custom log source or destination with Fluentd's extensible plugin framework Logging best practices and common pitfalls Logging in Action is a guide to optimize and organize logging using the CNCF Fluentd and Fluent Bit projects. You'll use the powerful log management tool Fluentd to solve common log management, and learn how proper log management can improve performance and make management of software and infrastructure solutions easier. Through useful examples like sending log-driven events to Slack, you'll get hands-on experience applying structure to your unstructured data. About the technology Don't fly blind! An effective logging system can help you see and correct problems before they cripple your software. With the Fluentd log management tool, it's a snap to monitor the behavior and health of your software and infrastructure in real time. Designed to collect and process log data from multiple sources using the industry-standard JSON format, Fluentd delivers a truly unified logging layer across all your systems. About the book Logging in Action teaches you to record and analyze application and infrastructure data using Fluentd. Using clear, relevant examples, it shows you exactly how to transform raw system data into a unified stream of actionable information. You'll discover how logging configuration impacts the way your system functions and set up Fluentd to handle data from legacy IT environments, local data centers, and massive Kubernetes-driven

distributed systems. You'll even learn how to implement complex log parsing with RegEx and output events to MongoDB and Slack. What's inside Capture log events from a wide range of systems and software, including Kubernetes and Docker Connect to custom log sources and destinations Employ Fluentd's extensible plugin framework Create a custom plugin for niche problems About the reader For developers, architects, and operations professionals familiar with the basics of monitoring and logging. About the author Phil Wilkins has spent over 30 years in the software industry. Has worked for small startups through to international brands. Table of Contents PART 1 FROM ZERO TO "HELLO WORLD" 1 Introduction to Fluentd 2 Concepts, architecture, and deployment of Fluentd PART 2 FLUENTD IN DEPTH 3 Using Fluentd to capture log events 4 Using Fluentd to output log events 5 Routing log events 6 Filtering and extrapolation PART 3 BEYOND THE BASICS 7 Performance and scaling 8 Driving logs with Docker and Kubernetes 9 Creating custom plugins PART 4 GOOD LOGGING PRACTICES AND FRAMEWORKS TO MAXIMIZE LOG VALUE 10 Logging best practices 11 Logging frameworks A comprehensive guide to understanding network architecture, communication protocols, and network analysis to build secure applications compatible with the latest versions of C# 8 and .NET Core 3.0 Key Features Explore various network architectures that make distributed programming possible Learn how to make reliable software by writing secure interactions between clients and servers Use .NET Core for network device automation, DevOps, and software-defined networking Book Description The C# language and the .NET Core application framework provide the tools and patterns required to make the discipline of network programming as intuitive and enjoyable as any other aspect of C# programming. With the help of this book, you will discover how the C# language and the .NET Core framework make this possible. The book begins by introducing the core concepts of network programming, and what distinguishes this field of programming from other disciplines. After this, you will gain insights into concepts such as transport protocols, sockets and ports, and remote data streams, which will provide you with a holistic understanding of how network software fits into larger distributed systems. The book will also explore the intricacies of how network software is implemented in a

more explicit context, by covering sockets, connection strategies such as Transmission Control Protocol (TCP) and User Datagram Protocol (UDP), asynchronous processing, and threads. You will then be able to work through code examples for TCP servers, web APIs served over HTTP, and a Secure Shell (SSH) client. By the end of this book, you will have a good understanding of the Open Systems Interconnection (OSI) network stack, the various communication protocols for that stack, and the skills that are essential to implement those protocols using the C# programming language and the .NET Core framework. What you will learn

- Understand the breadth of C#'s network programming utility classes
- Utilize network-layer architecture and organizational strategies
- Implement various communication and transport protocols within C#
- Discover hands-on examples of distributed application development
- Gain hands-on experience with asynchronous socket programming and streams
- Learn how C# and the .NET Core runtime interact with a hosting network
- Understand a full suite of network programming tools and features

Who this book is for If you're a .NET developer or a system administrator with .NET experience and are looking to get started with network programming, then this book is for you. Basic knowledge of C# and .NET is assumed, in addition to a basic understanding of common web protocols and some high-level distributed system designs. Despite of many years of studies, predicting fluid flow, heat, and chemical transport in fractured-porous media remains a challenge for scientists and engineers worldwide. This monograph is the third in a series on the dynamics of fluids and transport in fractured rock published by the American Geophysical Union (Geophysical Monograph Series, Vol. 162, 2005; and Geophysical Monograph, No. 122, 2000). This monograph is dedicated to the late Dr. Paul Witherspoon for his seminal influence on the development of ideas and methodologies and the birth of contemporary fractured rock hydrogeology, including such fundamental and applied problems as environmental remediation; exploitation of oil, gas, and geothermal resources; disposal of spent nuclear fuel; and geotechnical engineering. This monograph addresses fundamental and applied scientific questions and is intended to assist scientists and practitioners bridge gaps in the current scientific knowledge in the areas of theoretical fluids dynamics,

field measurements, and experiments for different practical applications. Readers of this book will include researchers, engineers, and professionals within academia, Federal agencies, and industry, as well as graduate/undergraduate students involved in theoretical, experimental, and numerical modeling studies of fluid dynamics and reactive chemical transport in the unsaturated and saturated zones, including studies pertaining to petroleum and geothermal reservoirs, environmental management and remediation, mining, gas storage, and radioactive waste isolation in underground repositories. Volume highlights include discussions of the following: Fundamentals of using a complex systems approach to describe flow and transport in fractured-porous media. Methods of Field Measurements and Experiments Collective behavior and emergent properties of complex fractured rock systems Connection to the surrounding environment Multi-disciplinary research for different applications Stay ahead of the web evolution with elegant combination front-end development Front-End Development with ASP.NET Core, Angular, and Bootstrap is the professional's guide to fast, responsive web development. Utilizing the most popular combination of web technologies for Microsoft developers, this guide provides the latest best practices and ASP.NET MVP guidance to get you up to speed quickly. The newest ASP.NET - now called ASP.NET Core - is leaner, easier to use, and less bound to the operating system and IDE, giving you the perfect opportunity to leverage third-party frameworks and libraries that provide functionalities not native to ASP.NET Core and Visual Studio. This book shows you how to integrate ASP.NET Core with Angular, Bootstrap, and similar frameworks, with a bit of jQuery Mobile, Nuget, continuous deployment, Bower dependencies, and Gulp/Grunt build systems, including development beyond Windows on Mac and Linux. With clear, concise instruction and expert insight, this guide is an invaluable resource for meeting the demands of modern web development. Combine ASP.NET Core with different tools, frameworks, and libraries Utilize third-party libraries with non-native functionalities Adopt the most up-to-date best practices for front-end development Develop flexible, responsive design sites The world of web development is evolving faster than ever before, and the trend is toward small, focused frameworks with modular capabilities. Microsoft has noticed,

and upgraded ASP.NET Core to align with the latest industry expectations. Front-End Development with ASP.NET Core, Angular, and Bootstrap helps you elegantly integrate these technologies to develop the sites that the industry demands. Chalk has proved to be one of the more difficult rocks to core-log as it breaks up readily during the drilling process leading to core-loss and destructuring, particularly where flints, nodular chalks and/or fractures are present. This book is based on the standard lithostratigraphy and method of engineering description of Chalk developed over many years. This book will enable geologists to work from first principles to construct a lithostratigraphy and define weathering boundaries.

Entity Framework Core in Action, Second Edition teaches you to write flawless database interactions for .NET applications. Summary Entity Framework Core in Action, Second Edition is an in-depth guide to reading and writing databases with EF Core. Revised from the bestselling original edition, it's filled with over 100 diagrams, code snippets, and examples—including building and scaling your own bookselling web application. Learn from author Jon Smith's extensive experience working with EF Core in production, as you discover time-saving patterns and best practices for security, performance tuning, and unit testing. All of the book's code is available on GitHub. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications.

About the technology Entity Framework radically simplifies data access in .NET applications. This easy-to-use object-relational mapper (ORM) lets you write database code in pure C#. It automatically maps classes to database tables and enables queries with standard LINQ commands. It even generates SQL, so you don't have to! About the book Entity Framework Core in Action, Second Edition teaches you to write flawless database interactions for .NET applications. Following relevant examples from author Jon Smith's extensive experience, you'll progress quickly from EF basics to advanced techniques. In addition to the latest EF features, this book addresses performance, security, refactoring, and unit testing. This updated edition also contains new material on NoSQL databases.

What's inside Configure EF to define every table and column Update your schema as your app grows Integrating EF with existing C# application Write and test business logic for database access Applying a

Domain-Driven Design to EF Core Getting the best performance out of EF Core About the reader For .NET developers familiar with relational databases. About the author Jon P. Smith is a freelance software developer and architect with a special focus on .NET and Azure. Table of Contents PART 1 1 Introduction to Entity Framework Core 2 Querying the database 3 Changing the database content 4 Using EF Core in business logic 5 Using EF Core in ASP.NET Core web applications 6 Tips and techniques for reading and writing with EF Core PART 2 7 Configuring nonrelational properties 8 Configuring relationships 9 Handling database migrations 10 Configuring advanced features and handling concurrency conflicts 11 Going deeper into the DbContext PART 3 12 Using entity events to solve business problems 13 Domain-Driven Design and other architectural approaches 14 EF Core performance tuning 15 Master class on performance-tuning database queries 16 Cosmos DB, CQRS, and other database types 17 Unit testing EF Core applications Coal Geology provides a complete integrated handbook on coal and all its properties, covering the physical and chemical properties of coal as well as coal petrology. It describes the age and occurrence of coal; coal sampling and analysis; coal exploration; geophysics and hydrogeology of coal and coal mining techniques. It also discusses environmental concerns and computer technology, and includes an update on global coal reserves and production figures. First reference book to cover all aspects of coal geology in one volume Includes current thinking on environmental issues Presents a useful synopsis of the alternative uses of coal as a fuel Contains the distribution and reserves of coal deposits worldwide Offers a summary of the use of computing in coal studies, as well as coal sales and marketing opportunities Includes International Standards listings This up-to-date handbook successfully bridges the gap between academic aspects of coal geology and the practical role of geology in the coal industry and will be invaluable for all professionals and students in coal geology, geotechnical and mining engineering, and environmental science.

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