

## Rock Fall Engineering By Duncan C Wyllie

Traditional textbooks on rock mechanics often fail to engage students in the learning process as such books are packed with theory that students are unlikely to use in their future employment. In contrast, this book delivers the fundamentals of rock mechanics using a more practical and engaging project-based approach which simulates what practitioners do in their real-life practice. This book will be of great help to those who would like to learn practical aspects of rock mechanics and better understand how to apply theory to solve real engineering problems. This book covers geology, rock mechanics principles, and practical applications such as rock falls, slope stability analysis and engineering problems in tunnels. Throughout the whole book, the reader is engaged in project-based work so that the reader can experience what rock mechanics is like and clearly see why it is an important part of geotechnical engineering. The project utilizes real field and laboratory data while the relevant theory needed to execute the project is linked to each project task. In addition, each section of the book contains several exercises and quiz questions to scaffold learning. Some problems include open-ended questions to encourage the

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reader to exercise their judgement and develop practical skills. To foster the learning process, solutions to all questions are provided to allow for learning feedback.

A thorough knowledge of geology is essential in the design and construction of infrastructures for transport, buildings and mining operations; while an understanding of geology is also crucial for those working in urban, territorial and environmental planning and in the prevention and mitigation of geohazards. Geological Engineering provides an interpretation of the geological setting, integrating geological conditions into engineering design and construction, and provides engineering solutions that take into account both ground conditions and environment. This textbook, extensively illustrated with working examples and a wealth of graphics, covers the subject area of geological engineering in four sections: Fundamentals: soil mechanics, rock mechanics and hydrogeology Methods: site investigations, rock mass characterization and engineering geological mapping Applications: foundations, slope stability, tunnelling, dams and reservoirs and earth works Geohazards: landslides, other mass movements, earthquake hazards and prevention and mitigation of geological hazards As well as being a textbook for graduate and postgraduate students and academics, Geological Engineering serves as a basic reference for

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practicing engineering geologists and geological and geotechnical engineers, as well as civil and mining engineers dealing with design and construction of foundations, earth works and excavations for infrastructures, buildings, and mining operations. The development of complex cultural behaviour in our own species is perhaps the most significant research issue in modern archaeology. Until recently, it was believed that our capacity for language and art only developed after some of our ancestors reached Europe around 40,000 years ago. Archaeological discoveries in Africa now show that modern humans were practicing symbolic behaviours prior to their dispersal from that continent, and more recent discoveries in Indonesia and Australia are once again challenging ideas about human cultural development. Despite these significant discoveries and exciting potentials, there is a curious absence of published information about Asia-Pacific region, and consequently, global narratives of our most celebrated cognitive accomplishment — art — has consistently underrepresented the contribution of Southeast Asia, Australia, and the Pacific Islands. This volume provides the first outline of what this region has to offer to the world of art in archaeology. Readers undertaking tertiary archaeology courses interested in the art of the Asia-Pacific region or human behavioural evolution, along with anyone who is

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fascinated by the development of our modern ability to decorate ourselves and our world, should find this book a good addition to their library.

In just a decade and half Jack Ma, a man who rose from humble beginnings and started his career as an English teacher, founded and built Alibaba into the second largest Internet company in the world. The company's \$25 billion IPO in 2014 was the world's largest, valuing the company more than Facebook or Coca Cola. Alibaba today runs the e-commerce services that hundreds of millions of Chinese consumers depend on every day, providing employment and income for tens of millions more. A Rockefeller of his age, Jack has become an icon for the country's booming private sector, and as the face of the new, consumerist China is courted by heads of state and CEOs from around the world. Granted unprecedented access to a wealth of new material including exclusive interviews, Clark draws on his own first-hand experience of key figures integral to Alibaba's rise to create an authoritative, compelling narrative account of how Alibaba and its charismatic creator have transformed the way that Chinese exercise their new found economic freedom, inspiring entrepreneurs around the world and infuriating others, turning the tables on the Silicon Valley giants who have tried to stand in his way. Duncan explores vital questions about the company's past, present, and future: How, from

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such unremarkable origins, did Jack Ma build Alibaba? What explains his relentless drive and his ability to outsmart his competitors? With over 80% of China's e-commerce market, how long can the company hope to maintain its dominance? As the company sets its sights on the country's financial and media markets, are there limits to Alibaba's ambitions, or will the Chinese government act to curtail them? And as it set up shop from LA and San Francisco to Seattle, how will Alibaba grow its presence and investments in the US and other international markets? Clark tells Alibaba's tale within the wider story of China's economic explosion—the rise of the private sector and the expansion of Internet usage—that have powered the country's rise to become the world's second largest economy and largest Internet population, twice the size of the United States. He also explores the political and social context for these momentous changes. An expert insider with unrivaled connections, Clark has a deep understanding of Chinese business mindset. He illuminates an unlikely corporate titan as never before, and examines the key role his company has played in transforming China while increasing its power and presence worldwide.

Preface. Dedication. List of Figures. List of Tables. List of Contributors. Basic Behavior and Site Characterization. 1. Introduction; R.K. Rowe. 2.

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Basic Soil Mechanics; P.V. Lade. 3. Engineering Properties of Soils and Typical Correlations; P.V. Lade. 4. Site Characterization; D.E. Becker. 5. Unsaturated Soil Mechanics and Property Assessment; D.G. Fredlund, et al. 6. Basic Rocks Mechanics and Testing; K.Y. Lo, A.M. Hefny. 7. Geosynthetics: Characteristics and Testing; R.M. Koerner, Y.G. Hsuan. 8. Seepage, Drainage and Dewatering; R.W. Loughney. Foundations and Pavements. 9. Shallo.

In the United States, some populations suffer from far greater disparities in health than others. Those disparities are caused not only by fundamental differences in health status across segments of the population, but also because of inequities in factors that impact health status, so-called determinants of health. Only part of an individual's health status depends on his or her behavior and choice; community-wide problems like poverty, unemployment, poor education, inadequate housing, poor public transportation, interpersonal violence, and decaying neighborhoods also contribute to health inequities, as well as the historic and ongoing interplay of structures, policies, and norms that shape lives. When these factors are not optimal in a community, it does not mean they are intractable: such inequities can be mitigated by social policies that can shape health in powerful ways.

Communities in Action: Pathways to Health Equity

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seeks to delineate the causes of and the solutions to health inequities in the United States. This report focuses on what communities can do to promote health equity, what actions are needed by the many and varied stakeholders that are part of communities or support them, as well as the root causes and structural barriers that need to be overcome.

"Soil Strength and Slope Stability is the essential text for the critical assessment of natural and man-made slopes. Extensive case studies throughout help illustrate the principles and techniques described, including a new examination of Hurricane Katrina failures, plus examples of soil and slope engineering from around the world. Extraneous theory has been excluded to place the focus squarely on the practical application of slope design and analysis techniques, including information about standards, regulations, formulas, and the use of software in analysis."--pub. desc.

"It was all so honest, before the end of our collective innocence. Top Forty jocks screamed and yelled and sounded mightier than God on millions of transistor radios. But on FM radio it was all spun out for only you. On a golden web by a master weaver driven by fifty thousand magical watts of crystal clear power . . . before the days of trashy, hedonistic dumbspeak and disposable three-minute ditties . . . in the days where rock lived at many addresses in many cities."  
—from FM As a young man, Richard Neer dreamed

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of landing a job at WNEW in New York—one of the revolutionary FM stations across the country that were changing the face of radio by rejecting strict formatting and letting disc jockeys play whatever they wanted. He felt that when he got there, he'd have made the big time. Little did he know he'd have shaped rock history as well. *FM: The Rise and Fall of Rock Radio* chronicles the birth, growth, and death of free-form rock-and-roll radio through the stories of the movement's flagship stations. In the late sixties and early seventies—at stations like KSAN in San Francisco, WBCN in Boston, WMMR in Philadelphia, KMET in Los Angeles, WNEW, and others—disc jockeys became the gatekeepers, critics, and gurus of new music. Jocks like Scott Muni, Vin Scelsa, Jonathan Schwartz, and Neer developed loyal followings and had incredible influence on their listeners and on the early careers of artists such as Bruce Springsteen, Genesis, the Cars, and many others. Full of fascinating firsthand stories, *FM* documents the commodification of an iconoclastic phenomenon, revealing how counterculture was coopted and consumed by the mainstream. Richard Neer was an eyewitness to, and participant in, this history. *FM* is the tale of his exhilarating ride. This practical handbook of properties for soils and rock contains, in a concise tabular format, the key issues relevant to geotechnical investigations, assessments and designs in common practice. In

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addition, there are brief notes on the application of the tables. These data tables are compiled for experienced geotechnical professionals who require a reference document to access key information. There is an extensive database of correlations for different applications. The book should provide a useful bridge between soil and rock mechanics theory and its application to practical engineering solutions. The initial chapters deal with the planning of the geotechnical investigation, the classification of the soil and rock properties and some of the more used testing is then covered. Later chapters show the reliability and correlations that are used to convert that data in the interpretative and assessment phase of the project. The final chapters apply some of these concepts to geotechnical design. This book is intended primarily for practicing geotechnical engineers working in investigation, assessment and design, but should provide a useful supplement for postgraduate courses.

An illustrated selection of answers to the title's question, submitted online and collected by Ben Nemtin, Dave Lingwood, Duncan Penn and Jonnie Penn, collectively known as The Buried Life and featured in the MTV reality television series of the same name. Some answers include essays relating how the online submissions were accomplished. Also included are brief essays on how the four young men accomplished some of their lists' tasks and their

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experiences helping others complete their lists.

Every engineering structure, whether it's a building, bridge or road, is affected by the ground on which it is built. Geology is of fundamental importance when deciding on the location and design of all engineering works, and it is essential that engineers have a basic knowledge of the subject. Engineering Geology introduces the fundamentals of the discipline and ensures that engineers have a clear understanding of the processes at work, and how they will impact on what is to be built. Core areas such as stratigraphy, rock types, structures and geological processes are explained, and put in context. The basics of soil mechanics and the links between groundwater conditions and underlying geology are introduced. As well as the theoretical knowledge necessary, Professor Bell introduces the techniques that engineers will need to learn about and understand the geological conditions in which they intend to build. Site investigation techniques are detailed, and the risks and risk avoidance methods for dealing with different conditions are explained. \* Accessible introduction to geology for engineers \* Key points illustrated with diagrams and photographs \* Teaches the impact of geology on the planning and design of structures

When dealing with rock in civil engineering, mining engineering and other engineering, the process by which the rock fails under load should be

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understood, so that safe structures can be built on and in the rock. However, there are many ways for loading rock and rock can have a variety of idiosyncracies. This reference book provides engineers and researchers with the essential knowledge for a clear understanding of the process of rock failure under different conditions. It contains an introductory chapter explaining the role of rock failure in engineering projects plus a summary of the theories governing rock failure and an explanation of the computer simulation method. It subsequently deals in detail with explaining, simulating and illustrating rock failure in laboratory and field. The concluding chapter discusses coupled modelling and the anticipated future directions for this type of computer simulation. An appendix describing the RFP numerical model (Rock Failure Process Analysis program) is also included. About the Authors Chun'an Tang has a PhD in Mining Engineering and is a Professor at the School of Civil & Hydraulic Engineering at Dalian University of Technology in China. He is an advisor for design and stability problem modelling in mining and civil rock engineering and Chairman of the China National Group of the International Society for Rock Mechanics. John Hudson is emeritus professor at Imperial College, London and is active as an independant consultant for Rock Engineering Consultants. He has a PhD in Rock Mechanics and

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completed over a 130 rock engineering consulting assignments in mining and civil engineering. He is a fellow at the Royal Academy of Engineering in the UK and President of the International Society for Rock Mechanics.

### Data Structures & Theory of Computation

Rock Slope Engineering covers the investigation, design, excavation and remediation of man-made rock cuts and natural slopes, primarily for civil engineering applications. It presents design information on structural geology, shear strength of rock and ground water, including weathered rock. Slope design methods are discussed for planar, wedge, circular and toppling failures, including seismic design and numerical analysis. Information is also provided on blasting, slope stabilization, movement monitoring and civil engineering applications. This fifth edition has been extensively up-dated, with new chapters on weathered rock, including shear strength in relation to weathering grades, and seismic design of rock slopes for pseudo-static stability and Newmark displacement. It now includes the use of remote sensing techniques such as LiDAR to monitor slope movement and collect structural geology data. The chapter on numerical analysis has been revised with emphasis on civil applications. The book is written for practitioners working in the fields of transportation, energy and industrial development, and

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undergraduate and graduate level courses in geological engineering.

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This second edition of the successful Foundations on Rock presents an up-to-date practical reference

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book describing current engineering practice in the investigation, design and construction of foundations on rock. An extra chapter on Tension Foundations has been included. The methods set out are readily applicable to high rise buildings, bridges, dams and structures subject to uplift and turning loads.

Foundations on Rock differs from the many texts and handbooks on soil foundations in that it focuses on the effect of geology on the stability and settlement of rock foundations. While the intact rock may be strong, defects in the rock such as faults, joints and cavities, and the deterioration of the rock with time, will have a significant effect on foundation performance. Methods of detecting such defects are described, and their implications for foundation design and treatment are elaborated.

Underground Excavations in Rock deals with the geotechnical aspects of the design of underground openings for mining and civil engineering processes.

Rockfall Engineering is an up-to-date, international picture of the state of the art in rockfall engineering. The three basic stages of rockfalls are considered: the triggering stage, the motion stage, and the interaction with a structure stage; along with contributions including structural characterization of cliffs, remote monitoring, stability analysis, boulder propagation, design of protection structures and risk assessment. Academic contributions are illustrated by practical examples, and completed by engineering contributions where practical purposes are thoroughly considered. This title is intended for engineers, students as well as researchers.

Soils and Foundations for Architects and Engineers, Second

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Edition is a practical guide to the technology of soil mechanics and foundations, and the application of that technology to the design and construction process. This text provides an up-to-date overview of the classification of soils, the design of foundations, and the behavior of soils under load. Particular emphasis has been given to the subject of piles, piers, and caissons, and to the design and details of construction of basement and retaining walls. New to this edition: Expanded coverage of shear strength of soils, settlement analysis, and expansive soil. Design requirements for prestressed tiebacks, tiedowns, and rock anchors. Expansion of information on pile driving techniques including the use of the Engineering News Formula. A table of British-metric conversions. Many new solved problems and illustrations. In addition to the numerous new improvements, the author also includes: effects of high water tables on architectural and engineering considerations, design of shear keys used in the transfer of lateral earth pressure from a wall to the supporting element, various drainage alternatives to the structural treatment of adjacent footings, and much more. Soils and Foundations for Architects and Engineers, Second Edition can be used in advanced undergraduate and graduate level courses offered in architectural engineering and civil engineering, as well as be used as a reference book by practicing architects, insurance adjusters and attorneys who litigate or adjudicate claims involving soils and foundations.

This seasoned textbook introduces geology for civil engineering students. It covers minerals and rocks, superficial deposits and the distribution of rocks at or below the surface. It then looks at groundwater and gives guidance on the exploration of a site before looking at the civil engineering implications of rocks and the main geological factors which affect typical engineering projects.

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Utilizes both Computer- and Hand-Based Calculations...

Modern practice in geomechanics is becoming increasingly reliant on computer-based software, much of which can be obtained through the Internet. In *Geomechanics in Soil, Rock, and Environmental Engineering* the application of these numerical techniques is examined not only for soil mechanics, but also for rock mechanics and environmental applications.

... For Use in Complex Analysis It deals with the modern analysis of shallow foundations, deep foundations, retaining structures, and excavation and tunneling. In recent years, the environment has become more and more important, and so it also deals with municipal and mining waste and solutions for the disposal and containment of the waste. Many fresh solutions to problems are presented to enable more accurate and advanced designs to be carried out. A Practical Reference for Industry Professionals, This Illuminating Book: Offers a broad range of coverage in soil mechanics, rock mechanics, and environmental engineering Incorporates the author's more than 40 years of academic and practical design experience Describes the latest applications that have emerged in the last ten years Supplies references readily available online for further research *Geomechanics in Soil, Rock, and Environmental Engineering* should appeal to students in their final undergraduate course in geomechanics or master's students, and should also serve as a useful reference to practitioners in the field of geomechanics, reflecting the author's background in both industry and academia.

The new edition of this successful book has been thoroughly revised to take account of recent advances in our understanding of slope stability and instability.

This study of contemporary culture discusses how rock 'n' roll reveals a unique understanding of attitudes in America, and includes interviews with politicians, rockers, the media, a

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Catholic theologian, and others.

This document presents state-of-the-practice information on the evaluation of soil and rock properties for geotechnical design applications. This document addresses the entire range of materials potentially encountered in highway engineering practice, from soft clay to intact rock and variations of materials that fall between these two extremes. Information is presented on parameters measured, evaluation of data quality, and interpretation of properties for conventional soil and rock laboratory testing, as well as in situ devices such as field vane testing, cone penetration testing, dilatometer, pressuremeter, and borehole jack. This document provides the design engineer with information that can be used to develop a rationale for accepting or rejecting data and for resolving inconsistencies between data provided by different laboratories and field tests. This document also includes information on: (1) the use of Geographical Information Systems (GIS) and Personal Data Assistance devices for the collection and interpretation of subsurface information; (2) quantitative measures for evaluating disturbance of laboratory soil samples; and (3) the use of measurements from geophysical testing techniques to obtain information on the modulus of soil. Also included are chapters on evaluating properties of special soil materials (e.g., loess, cemented sands, peats and organic soils, etc.) and the use of statistical information in evaluating anomalous data and obtaining design values for soil and rock properties. An appendix of three detailed soil and rock property selection examples is provided which illustrate the application of the methods described in the document.

The stability of rock slopes is an important issue in both civil and mining engineering. On civil projects, rock cuts must be safe from rock falls and large-scale slope instability during both construction and operation. In open pit mining, where

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slope heights can be many hundreds of meters, the economics of the operation are closely related to the steepest stable slope angle that can be mined. This extensively updated version of the classic text, *Rock Slope Engineering* by Hoek and Bray, deals comprehensively with the investigation, design and operation of rock slopes.

Investigation methods include the collection and interpretation of geological and groundwater data, and determination of rock strength properties, including the Hoek Brown rock mass strength criterion. Slope design methods include the theoretical basis for the design of plane, wedge, circular and toppling failures, and design charts are provided to enable rapid checks of stability to be carried out. New material contained in this book includes the latest developments in earthquake engineering related to slope stability, probabilistic analysis, numerical analysis, blasting, slope movement monitoring and stabilization methods. The types of stabilization include rock anchors, shotcrete, drainage and scaling, as well as rock fall protecting methods involving barriers, ditches, nets and sheds. *Rock Slopes: Civil and Mining Engineering* contains both worked examples illustrating data interpretation and design methods, and chapters on civil and mining case studies. The case studies demonstrate the application of design methods to the construction of stable slopes in a wide variety of geological conditions. The book provides over 300 carefully selected references for those who wish to study the subject in greater detail. It also includes an introduction by Dr. Evert Hoek.

The preparation of a volume on this topic was undertaken with some hesitancy on my part because the ramifications of the mineralogy of apatite involve both biological and physical sciences in very elaborate ways. This hesitancy may have arisen in part from the realization that considerable skill would be required in order to extract the meaning from the

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thousands of papers that have appeared within the past twenty years; the task of attempting to extract and assemble the usable information seemed gigantic. Greatly adding to the difficulty was the fact that a considerable portion of these journal articles contain nothing of value and further confuse a most complex topic. Nevertheless, it was thought that some of my formal education in the biological sciences, which has been greatly extended and augmented during the past fifteen years, might be integrated with my more extensive education and experience in chemistry, crystallography, mineralogy, geology and physics in order to produce something that would relate to the mineral apatite and its extremely diverse occurrences in nature. At the same time it seemed essential to point out some of the many important aspects in which this knowledge bears on geology, agriculture, chemical engineering, medicine and dentistry.

The stability of rock slopes is an important issue in both civil and mining engineering. On civil projects, rock cuts must be safe from rock falls and large-scale slope instability during both construction and operation. In open pit mining, where slope heights can be many hundreds of meters, the economics of the operation are closely related to the steepest stable slope angle that can be mined. This extensively updated version of the classic text, *Rock Slope Engineering* by Hoek and Bray, deals comprehensively with the investigation, design and operation of rock slopes.

Investigation methods.

Rock falls can be a public safety issue. This book provides comprehensive information on identification of these hazards, and design and construction of protection methods. *Rock Fall Engineering* describes first, the theoretical background to rock fall behavior in terms of the impact and trajectory phases of rock falls, and second, how this information is applied to modeling of rock falls and the design of ditches, fences and

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sheds. The theory of rock fall behavior is verified by comparing the calculations with five carefully documented case studies. The book covers four main topics as follows: Describes causes of rock falls, including geology, climate and topography, and provides detailed documentation on rock fall impacts and trajectories at five sites with a wide variety of topographic and geologic features Discusses theory of impact mechanics, and its application to velocity and energy changes during impacts and trajectories Reviews methods of modeling rock fall events, and presents analyses for the five case studies Examines rock fall protection in terms of selecting appropriate method(s) for site conditions, and design principles in which the objective is to absorb impact energy in an efficient manner This book, which contains many worked examples, is of interest to practitioners and researchers working in the fields of geological engineering and natural hazards. Duncan C. Wyllie is a principal with Wyllie & Norrish Rock Engineers in Vancouver, Canada, and a registered professional engineer in British Columbia. He has worked on rock fall hazard projects involving the design and construction protection measures since the 1970s. He is the author of Foundations on Rock, Second Edition, and Rock Slope Engineering, Fourth Edition, both published by CRC Press.

An insight into the use of the finite method in geotechnical engineering. The first volume covers the theory and the second volume covers the applications of the subject. The work examines popular constitutive models, numerical techniques and case studies.

The "Red Book" presents a background to conventional foundation analysis and design. The text is not intended to replace the much more comprehensive 'standard' textbooks, but rather to support and augment these in a few important areas, supplying methods applicable to practical cases

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handled daily by practising engineers and providing the basic soil mechanics background to those methods. It concentrates on the static design for stationary foundation conditions. Although the topic is far from exhaustively treated, it does intend to present most of the basic material needed for a practising engineer involved in routine geotechnical design, as well as provide the tools for an engineering student to approach and solve common geotechnical design problems. This classic handbook deals with the geotechnical problems of rock slope design. It has been written for the non-specialist mining or civil engineer, with worked examples, design charts, coverage of more detailed analytical methods, and of the collection and interpretation of geological and groundwater information and tests for the mechanical properties of rock. This second edition of the successful Foundations on Rock presents an up-to-date practical reference book describing current engineering practice in the investigation, design and construction of foundations on rock. An extra chapter on Tension Foundations has been included. The methods set out are readily applicable to high rise buildings, bridges, 'Not a huge number of literary novels tackle the world of work ... Out of rather unusual material Adrian Duncan has crafted a quiet, beautifully written, intellectually provocative and compelling story, an assured blend of mastery and mystery' Dublin Review of Books. Paul, a young Irish engineer, follows Evelyn to Berlin and begins work on the renovation of a commercial building in Alexanderplatz. Wrestling with a new language, on a site running behind schedule, and with a relationship in flux, he becomes increasingly untethered. Set against the structural evolution of a sprawling city,

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this meditation on language, memory and yearning is underpinned by the site's physical reality. As the narration explores the mind's fragile architecture, he begins to map his own strange geography through a series of notebooks, or 'Love notes'. Paul's story will speak to anyone who has known what it is to be in love, or exiled, or simply alone.

The purpose of this manual is to provide clear and helpful information for maintaining gravel roads. Very little technical help is available to small agencies that are responsible for managing these roads. Gravel road maintenance has traditionally been "more of an art than a science" and very few formal standards exist. This manual contains guidelines to help answer the questions that arise concerning gravel road maintenance such as: What is enough surface crown? What is too much? What causes corrugation? The information is as nontechnical as possible without sacrificing clear guidelines and instructions on how to do the job right.

Coastlines of the world are as diverse as any geological setting on Earth. Beaches and Coasts is an exciting and unique new textbook that provides an exhaustive treatment of the world's different coasts and details the highly varied processes that have shaped them. Having conducted research on coastlines throughout the world, the authors draw on a wealth of experience that broadens the content of chapters and provides for numerous and varied

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examples. The book furnishes a basic understanding of the tectonic framework, hydrographic regime, climatic setting, and geologic materials that determine the morphology of a coast. Individual chapters are devoted to major coastal environments such as barriers, tidal inlets, marshes, estuaries, lagoons, deltas, glaciated coasts, rocky coasts and many others. *Beaches and Coasts* provides the necessary content for teaching a broad coastal geology course. Though designed for introductory students, its comprehensive treatment of coastal topics will make it appropriate for many upper level courses. Exciting and unique textbook that provides an exhaustive treatment of the world's different coasts and details the highly varied processes that have shaped them. The authors draw on a wealth of experience that broadens the content of chapters and provides for numerous and varied examples. Provides a basic understanding of the tectonic framework, hydrographic regime, climatic setting, and geologic materials that determine the morphology of a coast. Individual chapters are devoted to major coastal environments such as barriers, tidal inlets, marshes, estuaries, lagoons, deltas, glaciated coasts, rocky coasts, and many others. Provides comprehensive content for teaching a broad coastal geology course for both introductory and upper level courses.

A collection of workshop papers providing state-of-

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the-art reviews on all aspects of fragmentation, including photographic requirements, image enhancement, statistical treatment, and applications in quarrying, mining and minerals processing industries.

An Ideal Source for Geologists and Others with Little Background in Engineering or Mechanics Practical Rock Mechanics provides an introduction for graduate students as well as a reference guide for practicing engineering geologists and geotechnical engineers. The book considers fundamental geological processes that give rise to the nature of rock masses and control their mechanical behavior. Stresses in the earth's crust are discussed and methods of measurement and prediction explained. Ways to investigate, describe, test, and characterize rocks in the laboratory and at project scale are reviewed. The application of rock mechanics principles to the design of engineering structures including tunnels, foundations, and slopes is addressed. The book is illustrated throughout with simple figures and photographs, and important concepts are illustrated by modern case examples. Mathematical equations are kept to the minimum necessary and are explained fully—the book leans towards practice rather than theory. This text:  
Addresses the principles of rock mechanics as it applies to both structural geology and engineering practice  
Demonstrates the importance of and

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methods of geological characterisation to rock engineering Examines the standard methods of rock mechanics testing and measurement as well as interpretation of data in practice Explains connections between main parameters both empirically as well as on the basis of scientific theory Provides examples of the practice of rock mechanics to major engineering projects Practical Rock Mechanics teaches from first principles and aids readers' understanding of the concepts of stress and stress transformation and the practical application of rock mechanics theory. This text can help ensure that ground models and designs are correct, realistic, and produced cost-effectively. This book describes the characteristics of heat pipes under steady-state and transient operating conditions. It emphasizes the physical aspects of heat pipe behavior and develops design formulas on the basis of mathematical models and empirical observation. The author take a tutorial approach, presenting information on the application of heat pipe technology, design methods, and data to heat pipe cooling and heat exchange requirements. He provides the nonspecialist with sufficient understanding of heat pipe technology to appreciate and assess its application potential, while also meeting the needs of the experienced heat pipe designer and researcher.

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