

Analisis Stabilitas Dinding Penahan Tanah Dan Rembesan

Soil Dynamics Stabilized Earth Roads Advanced Soil
Mechanics, Second Edition Theoretical Soil
Mechanics Landslide Recognition Indeks makalah
konferensi, lokakarya, seminar dan sejenisnya di
Indonesia Landslides, Analysis and Control Keys to Soil
Taxonomy Guide to Stability Design Criteria for Metal
Structures Shallow Foundations Soil Strength and Slope
Stability Trillion Dollar Coach Foundation Analysis and
Design Deep Excavation Mekanika Tanah
Dasar Numerical Methods in Geotechnical
Engineering Geotechnical Instrumentation for
Monitoring Field Performance Desain Beton Bertulang
Jl. 2 Design of Pile Foundations Soil Mechanics Open-
channel Hydraulics Konstruksi & Arsitektur Piling
Engineering GEOTEKNIK Floods Principles of Soil
Dynamics Constitutive Equations for Engineering
Materials Introductory Geotechnical
Engineering Foundation Design Introduction to
Geotechnical Engineering Landslides and Engineering
Practice BLUE CARBON IN SEAGRASS
ECOSYSTEM Applied Geotechnics for Engineers
1 Fundamentals of Soil Dynamics Introduction to Soil
Physics Rekayasa Fondasi Slope Instability Essentials of
Quality with Cases and Experiential Exercises River
Mechanics Physical and Geotechnical Properties of
Soils

Soil Dynamics

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Intended for undergraduate/graduate-level foundation engineering courses. This book emphasizes a thorough understanding of concepts and terms before proceeding with analysis and design, and integrates the principles of foundation engineering with their application to practical design problems.

Stabilized Earth Roads

This revised edition is restructured with additional text and extensive illustrations, along with developments in geotechnical literature. Among the topics included are: soil aggregates, stresses in soil mass, pore water pressure due to undrained loading, permeability and seepage, consolidation, shear strength of soils, and evaluation of soil settlement. The text presents mathematical derivations as well as numerous worked-out examples.

Advanced Soil Mechanics, Second Edition

Theoretical Soil Mechanics

Landslide Recognition

The definitive guide to stability design criteria, fully updated and incorporating current research
Representing nearly fifty years of cooperation between Wiley and the Structural Stability Research Council, the Guide to Stability Design Criteria for Metal Structures is often described as an invaluable

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reference for practicing structural engineers and researchers. For generations of engineers and architects, the Guide has served as the definitive work on designing steel and aluminum structures for stability. Under the editorship of Ronald Ziemian and written by SSRC task group members who are leading experts in structural stability theory and research, this Sixth Edition brings this foundational work in line with current practice and research. The Sixth Edition incorporates a decade of progress in the field since the previous edition, with new features including: Updated chapters on beams, beam-columns, bracing, plates, box girders, and curved girders. Significantly revised chapters on columns, plates, composite columns and structural systems, frame stability, and arches Fully rewritten chapters on thin-walled (cold-formed) metal structural members, stability under seismic loading, and stability analysis by finite element methods State-of-the-art coverage of many topics such as shear walls, concrete filled tubes, direct strength member design method, behavior of arches, direct analysis method, structural integrity and disproportionate collapse resistance, and inelastic seismic performance and design recommendations for various moment-resistant and braced steel frames Complete with over 350 illustrations, plus references and technical memoranda, the Guide to Stability Design Criteria for Metal Structures, Sixth Edition offers detailed guidance and background on design specifications, codes, and standards worldwide.

Indeks makalah konferensi, lokakarya, seminar dan sejenisnya di Indonesia

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Climate change poses a severe threat to the global ecosystem which will impact all nations around the world including ASEAN member countries. Urgent and integrated effort is critical to reduce the amount of carbon dioxide which traps heat in the atmosphere and causes climate change. Plants have the capacity to absorb and store a large amount of carbon. Recent researches suggest that seagrass ecosystem is one of the most promising carbon sequester and carbon sink. Seagrass absorbs carbon dioxide and converts it into potential energy which is stored in the form of organic carbon. The seagrass' organic carbon and organic matter from other sources is trapped in the seagrass sediments. Due to this capacity, seagrass is recognized as a natural carbon dioxide removal (NCDR). Compared to tropical rainforests, seagrass meadows have more potential to capture and store a large amount of carbon (i.e. blue carbon). ASEAN countries share similar concerns and equal responsibility to preserve the seagrass ecosystem as a natural-based approach on mitigating global climate change. However, seagrass ecosystem in each of the ASEAN country has its own unique characteristics, posing challenges on the contribution assessment of each country. Thus, a general platform to collect data and calculate carbon sequestration from the seagrass ecosystem needs to be developed, to equally compare data and information among the ASEAN countries. Accordingly, this guideline was developed as a mean to fulfil the need.

Landslides, Analysis and Control

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Completely updated and with three new chapters, this analysis of river dynamics is invaluable for advanced students, researchers and practitioners.

Keys to Soil Taxonomy

Guide to Stability Design Criteria for Metal Structures

Written in a concise, easy-to understand manner, INTRODUCTION TO GEOTECHNICAL ENGINEERING, 2e, presents intensive research and observation in the field and lab that have improved the science of foundation design. Now providing both U.S. and SI units, this non-calculus-based text is designed for courses in civil engineering technology programs where soil mechanics and foundation engineering are combined into one course. It is also a useful reference tool for civil engineering practitioners. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Shallow Foundations

Integrating and blending traditional theory with particle-energy-field theory, this book provides a framework for the analysis of soil behaviour under varied environmental conditions. This book explains the why and how of geotechnical engineering in an environmental context. Using both SI and Imperial units, the authors cover: rock mechanics soil

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mechanics and hydrogeology soil properties and classifications and issues relating to contaminated land. Students of civil, geotechnical and environmental engineering and practitioners unfamiliar with the particle-energy-field concept, will find that this book's novel approach helps to clarify the complex theory behind geotechnics.

Soil Strength and Slope Stability

The team behind How Google Works returns with management lessons from legendary coach and business executive, Bill Campbell, whose mentoring of some of our most successful modern entrepreneurs has helped create well over a trillion dollars in market value. Bill Campbell played an instrumental role in the growth of several prominent companies, such as Google, Apple, and Intuit, fostering deep relationships with Silicon Valley visionaries, including Steve Jobs, Larry Page, and Eric Schmidt. In addition, this business genius mentored dozens of other important leaders on both coasts, from entrepreneurs to venture capitalists to educators to football players, leaving behind a legacy of growing companies, successful people, respect, friendship, and love after his death in 2016. Leaders at Google for over a decade, Eric Schmidt, Jonathan Rosenberg, and Alan Eagle experienced firsthand how the man fondly known as Coach Bill built trusting relationships, fostered personal growth—even in those at the pinnacle of their careers—inspired courage, and identified and resolved simmering tensions that inevitably arise in fast-moving environments. To honor their mentor and

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inspire and teach future generations, they have codified his wisdom in this essential guide. Based on interviews with over eighty people who knew and loved Bill Campbell, Trillion Dollar Coach explains the Coach's principles and illustrates them with stories from the many great people and companies with which he worked. The result is a blueprint for forward-thinking business leaders and managers that will help them create higher performing and faster moving cultures, teams, and companies.

Trillion Dollar Coach

Accelerating economic development and urbanization has led to engineers becoming increasingly ambitious, carrying out excavations in more difficult soils, so that excavations are deeper and more extensive. These complex conditions require advanced analysis, design methods and construction technologies. Most books on general foundation engineering i

Foundation Analysis and Design

Deep Excavation

Mekanika Tanah Dasar

PRINCIPLES OF SOIL DYNAMICS is an unparalleled reference book designed for an introductory course on Soil Dynamics. Authors Braja M. Das, best selling authority on Geotechnical Engineering, and Ramana

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V. Gunturi, Dean of the Civil Engineering Department at the India Institute of Technology in New Delhi, present a well revised update of this already well established text. The primary focus of the book is on the applications of soil dynamics and not on the underlying principles. The material covered includes the fundamentals of soil dynamics, dynamic soil properties, foundation vibration, soil liquefaction, pile foundation and slope stability. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Numerical Methods in Geotechnical Engineering

A paperback edition of this highly successful volume. Piling is a fast-moving field, and in recent years there have been major advances in theory, methods, testing procedures and equipment, all of which are covered here. This is a detailed manual with a marked emphasis on practice.

Geotechnical Instrumentation for Monitoring Field Performance

Open-Channel Hydraulics, originally published in 1959, deals with the design for flow in open channels and their related structures. Covering both theory and practice, it attempts to bridge the gap that generally exists between the two. Theory is introduced first and is then applied to design problems. In many cases the application of theory is illustrated with practical

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examples. Theory is frequently simplified by adopting theoretically less rigorous treatments with sound concepts, by avoiding use of advanced mathematical manipulations, or by replacing such manipulations with practical numerical procedures. To facilitate understanding of the subject matter, the treatment is mostly based on the condition of one- or two-dimensional flow. The book deals mainly with American practice but also includes related information from many countries throughout the world. Material is divided into five main sections for an orderly and logical treatment of the subject: Basic Principles. Uniform Flow, Varied Flow, Rapidly Varied Flow, and Unsteady Flow. There are 67 illustrative examples, 282 illustrations, 319 problems, and 810 references. This classic textbook was the first English-language book on the subject in two decades. Open-Channel Hydraulics is a valuable text for students of engineering mechanics. hydraulics. civil. agricultural. sanitary. and mechanical engineering, and a helpful compendium for practicing engineers. Dr. Ven Te Chow was a Professor of Hydraulic Engineering and led the hydraulic engineering research and teaching programs at the University of Illinois. Through many years of experience as a teacher, engineer, researcher, writer. lecturer, and consultant, he became an internationally recognized leader in the fields of hydraulics, hydrology and hydraulic engineering. Dr. Ven Te Chow authored two technical books and more than 60 articles and papers in scientific an engineering magazines and journals. He was a member of IAHR, ASCE, AGU, AAAS, SEE, and Sigma Xi, and had been Chairman of the American Geophysical Union's Permanent Research Committee

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on Runoff.

Desain Beton Bertulang Jl. 2

"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.

Design of Pile Foundations

Materi pokok rekayasa fondasi mencakup pengetahuan dasar berupa teori-teori dan pengetahuan terapan, yaitu penyelesaian kasus-kasus perencanaan yang ada di lapangan. Pengetahuan dasar diperlukan karena merupakan hal dasar yang memengaruhi optimalisasi desain fondasi bangunan di lapangan. Pengetahuan terapan mencakup penjelasan metode perhitungan rumus-rumus yang relevan bagi perencanaan fondasi, meliputi desain dimensi fondasi, kedalaman, serta penurunan dan stabilitas terhadap gaya-gaya internal dan eksternal. Buku Rekayasa Fondasi untuk Program Vokasi disusun karena adanya keterbatasan referensi tentang materi fondasi dangkal dan fondasi dalam,

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yang mudah dipelajari mahasiswa. Untuk itu, ketika ada kesempatan untuk menyusun materi rekayasa fondasi, penulis beserta teman-teman pengajar yang sebidang, berusaha menyajikan materi buku ajar yang sesuai dengan kebutuhan silabus program vokasi. Mencakup materi fondasi dangkal (shallow foundation) dan fondasi dalam (depthfoundation).

Soil Mechanics

This book is a unified, condensed, and simplified version of the recently issued twin volumes, *Fundamentals of Soil Physics* and *Applications of Soil Physics*. Nonessential topics and complexities have been deleted, and little prior knowledge of the subject is assumed. An effort has been made to provide an elementary, readable, and self-sustaining description of the soil's physical properties and of the manner in which these properties govern the processes taking place in the field. Consideration is given to the ways in which the soil's processes can be influenced, for better or for worse, by man. Sample problems are provided in an attempt to illustrate how the abstract principles embodied in mathematical equations can be applied in practice. The author hope that the present version will be more accessible to students than its precursors and that it might serve to arouse their interest in the vital science of soil physics.

Open-channel Hydraulics

Konstruksi & Arsitektur

Piling Engineering

GEOTEKNIK

The subjects dealing with soil dynamics here are : fundamentals of vibration, stress waves in bounded elastic medium and in three dimensions, airblast loading on ground, foundation vibration, earthquake and ground vibration, compressibility of soils under dynamic loads, liquefaction of saturated sand

Floods

Thoroughly tested and used by students and proven to help students taking the American Society for Quality's Certified Quality Improvement Associate exam, Essentials of Quality is highly accessible, experiential, and unique in its coverage of current quality management topics, from creative and innovative improvements and approaches to today's economic environment to ways of developing metrics for measuring and evaluating programs. With non-academic, reader-friendly writing, the text features many chapter exercise and cases that provide students with hands-on experience.

Principles of Soil Dynamics

Constitutive Equations for Engineering

Materials

The First Comprehensive Guide to Shallow Foundations Over the last few decades, the bearing capacity of shallow foundations has been studied more thoroughly than any other subject in geotechnical engineering. Until now, however, most references on foundation engineering devoted only a single chapter to the subject. *Shallow Foundations: Bearing Capacity and Settlement* provides what many engineers have been waiting for—a concise, comprehensive reference containing all the relevant material on shallow foundation behavior under static and dynamic loads related to their ultimate bearing capacity, allowable bearing capacity, and settlement. *Estimation Techniques, Earthquake Loading, and Experimental Results* The author—a renowned expert—presents the various theories developed during the past fifty years for estimating the ultimate bearing capacity of shallow foundations under various types of loading and subsoil conditions. He discusses the principles of estimating foundation settlement and for estimating the stress increase in a soil mass supporting a foundation. Earthquake loading and its effects on ultimate bearing capacity have received considerable attention in recent years, and the author provides an overview of these developments. He also offers details regarding permanent foundation settlement caused by cyclic and transient loading—details derived from laboratory and field experimental observations. *Progress in Soil Reinforcement* Researchers have made steady progress in evaluating the potential of soil reinforcement to reduce

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settlement and increase ultimate and allowable bearing capacities of shallow foundations. This book provides an entire chapter on the subject, including discussions of the materials used: galvanized steel strips, geotextile, and geogrid. The presentation of Shallow Foundations is clear, concise, and filled with examples and exercises that illustrate the theory. This book stands alone as an in-depth, authoritative guide to shallow foundation bearing capacities and the effects of different soil types, slopes, settlement, reinforcement, and seismic activity. Researchers, students, and practicing engineers will all welcome its addition to their reference shelves.

Introductory Geotechnical Engineering

Rekayasa geologi teknik memegang peranan penting dalam semua perencanaan fondasi untuk semua jenis pembangunan infrastruktur yang sedang dilakukan di seluruh area Negara Indonesia. Kesesuaian hasil penyelidikan geologi teknik di lapangan, laboratorium dan rekomendasi teknik yang memadai dan akurat akan sangat menentukan keberhasilan dalam pencapaian hasil pembangunan yang baik, aman dan tepat waktu. Ketidak tepatan durasi pelaksanaan dalam penyelesaian konstruksi, salah satunya karena faktor hasil penyelidikan dan rancangan geologi teknik dengan data perolehan yang minim dalam perencanaan. Di samping itu hasil penyelidikan geologi teknik lapangan banyak dijumpai adanya ketidaktepatan apa yang diperoleh di masa tahap pendataan dalam perencanaan, dengan keadaan sebenarnya setelah area medan dilaksanakan

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konstruksinya. Bahasan di buku 1 ini adalah: - Prinsip Dasar Ilmu Geologi - Perencanaan Survei Geologi Teknik - Penyelidikan Geologi Teknik Lapangan - Uji Lab. Mekanika Tanah dan Batuan - Koreksi Hasil Uji Penetrasi Standar Lapangan - Klasifikasi Tanah, Batuan, Sistem Klasifikasi Masa Batuan - Tekanan Tanah, Parameter Deformasi

Foundation Design

Constitutive Equations for Engineering Materials, Volume 1: Elasticity and Modeling, Revised Edition focuses on theories on elasticity and plasticity of engineering materials. The book first discusses vectors and tensors. Coordinate systems, vector algebra, scalar products, vector products, transformation of coordinates, indicial notation and summation convention, and triple products are then discussed. The text also ponders on analysis of stress and strain and presents numerical analysis. The book then discusses elastic stress-strain relations. Basic assumptions; need for elastic models; isotropic linear stress-strain relations; principle of virtual work; strain energy and complementary energy density in elastic solids; and incremental relations grounded on secant moduli are described. The text also explains linear elasticity and failure criteria for concrete and non-linear elasticity and hypoelastic models for concrete. The selection further tackles soil elasticity and failure criteria. Mechanical behavior of soils; failure criteria of soils; and incremental stress-strain models based on modification of the isotropic linear elastic formulation are considered. The text is a good source of data for

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readers interested in studying the elasticity and plasticity of engineering materials.

Introduction to Geotechnical Engineering

The revision of this best-selling text for a junior/senior course in Foundation Analysis and Design now includes an IBM computer disk containing 16 compiled programs together with the data sets used to produce the output sheets, as well as new material on sloping ground, pile and pile group analysis, and procedures for an improved analysis of lateral piles. Bearing capacity analysis has been substantially revised for footings with horizontal as well as vertical loads. Footing design for overturning now incorporates the use of the same uniform linear pressure concept used in ascertaining the bearing capacity. Increased emphasis is placed on geotextiles for retaining walls and soil nailing.

Landslides and Engineering Practice

Developments in Geotechnical Engineering, Volume 19: Stabilized Earth Roads surveys soil stabilization theory and practice. This work is divided into nine chapters that discuss the physical, chemical, and soil mechanics principles of soil stabilization. The first chapter is an introduction to the history, methods, and importance of soil stabilization in road construction. The next chapters deal with the fundamental definitions of soil physics and the interactions of soil components, as well as the concept of mechanical soil stabilization. Considerable

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chapters examine soil stabilization with several materials, such as cement, lime, bitumen, and tar. The last chapters describe the soil-stabilization methods with various chemicals, including chlorides, phosphoric acid, and natural and synthetic polymers. These chapters also consider the design of stabilized earth roads. This book is of value to geologists and civil engineers.

BLUE CARBON IN SEAGRASS ECOSYSTEM

Applied Geotechnics for Engineers 1

This publication, Keys to Soil Taxonomy, Twelfth Edition, 2014, coincides with the 20th World Congress of Soil Science, to be held on Jeju Island, Korea in June 2014. The Keys to Soil Taxonomy serves two purposes. It provides the taxonomic keys necessary for the classification of soils in a form that can be used easily in the field. It also acquaints users of soil taxonomy with recent changes in the classification system. The twelfth edition of the Keys to Soil Taxonomy incorporates all changes approved since the publication in 1999 of the second edition of Soil Taxonomy: A Basic System of Soil Classification for Making and Interpreting Soil Surveys.

Fundamentals of Soil Dynamics

The first book on the subject written by a practitioner for practitioners. Geotechnical Instrumentation for Monitoring Field Performance Geotechnical

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Instrumentation for Monitoring Field Performance goes far beyond a mere summary of the technical literature and manufacturers' brochures: it guides reader through the entire geotechnical instrumentation process, showing them when to monitor safety and performance, and how to do it well. This comprehensive guide:

- * Describes the critical steps of planning monitoring programs using geotechnical instrumentation, including what benefits can be achieved and how construction specifications should be written
- * Describes and evaluates monitoring methods and recommends instruments for monitoring groundwater pressure, deformations, total stress in soil, stress change in rock, temperature, and load and strain in structural members
- * Offers detailed practical guidelines on instrument calibrations, installation and maintenance, and on the collection, processing, and interpretation of instrumentation data
- * Describes the role of geotechnical instrumentation during the construction and operation phases of civil engineering projects, including braced excavations, embankments on soft ground, embankment dams, excavated and natural slopes, underground excavations, driving piles, and drilled shafts
- * Provides guidelines throughout the book on the best practices

Introduction to Soil Physics

Buku ini berisi pengetahuan dasar tentang ilmu tanah berdasarkan kaca mata ilmu teknik sipil yang biasa disebut mekanika tanah. Pemahaman tentang mekanika tanah sangat penting untuk perencanaan

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bangunan geoteknik dimana tanah diharapkan mampu menahan beban bangunan yang ada di atasnya. Pada Bab I pada buku ini menjelaskan pengertian mekanika tanah dan hubungannya dengan ilmu geologi dan bidang keilmuan lainnya. Karena tanah terbentuk dari batuan dan begitu juga sebaliknya maka Bab II bercerita tentang siklus batuan dan tipe batuan yang mungkin menjadi dasar perletakan pondasi bangunan. Pada Bab III mulai dijelaskan bagaimana merencanakan penyelidikan tanah untuk kepentingan perencanaan bangunan. Mulai Bab IV sampai Bab VII akan dibahas secara rinci karakteristik tanah yang dimulai dengan sifat fisik tanah (Bab IV), penamaan tanah berdasarkan material pembentuk dan sifat utama yang mempengaruhinya (Bab V). Sifat mekanis tanah yang sangat menentukan untuk mengetahui kemampuan tanah menahan beban akan dibahas di Bab VI dan VII. Bab VIII membahas lebih lanjut tentang sifat tanah yang dialiri oleh air dimana analisisnya berguna dalam perencanaan bangunan air.

Rekayasa Fondasi

Every year a landslide disaster occurs somewhere in Europe. Destructive events are fortunately infrequent but when they do occur they are often tragic in their effects. Europe is heavily populated and development is expanding into areas where natural events are more likely to happen. Landslide Recognition is written by specialists from several European institutions and is designed to portray the diagnostic features of landslides as they would appear in the

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field, on maps or in photographs. Brief descriptions are provided and some guidance is given in the area in which different landslide types might be expected. This book will assist planners, developers, engineers and earth scientists to recognise where a problem may exist and to diagnose what type of failure may occur. The correct investigations and remedial measures may then be applied.

Slope Instability

This volume brings together, from a wide range of experience, such information as may be useful in recognizing, avoiding, controlling, designing for, and correcting movement. Current geologic concepts and engineering principles and techniques are introduced, and both the analysis and control of soil and rock-slopes are addressed. New methods of stability analysis and the use of computer techniques in implementing these methods are included. Rock slope engineering and the selecting of shear-strength parameters for slope-stability analyses are covered in separate chapters.

Essentials of Quality with Cases and Experiential Exercises

River Mechanics

Buku ajar Geoteknik ini disusun untuk membantu mahasiswa yang mempelajari dan memahami konsep Geoteknik sesuai dengan mata kuliah pilihan di

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kurikulum 2017. Buku ini terdiri dari 14 bab yang disusun secara runtut mengikuti struktur kompetensi dasar. Setiap bab dari buku ini selalu diawali dengan deskripsi singkat dari bab, relevansi dan kompetensi dasar yang ingin dicapai. Penjelasan dilanjutkan dengan penjelasan umum dari topik dengan diberikan ilustrasi berupa gambar dan tabel. Diakhir penjelasan diberikan latihan yang bertujuan untuk mengetahui pemahaman dari mahasiswa. Selanjutnya dibagian penutup diberikan rangkuman hingga umpan balik untuk mengetahui pemahaman yang diperoleh. Dibagian akhir dari buku ini, diberikan contoh penerapan ilmu geoteknik di beberapa kasus yang sering dikerjakan oleh mahasiswa geologi dalam kaitannya pekerjaan kegeoteknikan. Diharapkan dengan pada diri mahasiswa akan tumbuh kompetensi pada ranah kognitif, afektif dan psikomotorik sesuai dengan yang diharapkan dalam pembelajaran.

Physical and Geotechnical Properties of Soils

Numerical Methods in Geotechnical Engineering contains the proceedings of the 8th European Conference on Numerical Methods in Geotechnical Engineering (NUMGE 2014, Delft, The Netherlands, 18-20 June 2014). It is the eighth in a series of conferences organised by the European Regional Technical Committee ERTC7 under the auspices of the International

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