

Basic Soils Information

A. General Information

This section summarizes the basic soil properties and definitions required for designing pavement foundations and embankment construction. Basic soil classification and moisture-density relationships for compacted cohesive and cohesionless soil materials are included. The standard for soil density is determined as follows:

1. **Coarse-grained Soil:** The required minimum relative density and moisture range should be specified if it is a bulking soil.
2. **Fine-grained Soil:** The required minimum dry density should be specified; then the acceptable range of moisture content should be determined through which this density can be achieved.
3. **Inter-grade Soils:** The required minimum dry density or relative density should be specified, depending on the controlling test. Moisture range is determined by the controlling test.

B. Soil Types

1. **Soil:** Soils are sediments or other unconsolidated accumulation of solid particles produced by the physical and chemical disintegration of rocks, and which may or may not contain organic matter. Soil has distinct advantages as a construction material, including its relative availability, low cost, simple construction techniques, and material properties which can be modified by mixing, blending, and compaction. However, there are distinct disadvantages to the use of soil as a construction material, including its non-homogeneity, variation in properties in space and time, changes in stress-strain response with loading, erodability, weathering, and difficulties in transitions between soil and rock.

Prior to construction, engineers conduct site characterization, laboratory testing, and geotechnical analysis, design and engineering. During construction, engineers ensure that site conditions are as determined in the site characterization, provide quality control and quality assurance testing, and compare actual performance with predicted performance.

Numerous soil classification systems have been developed, including geological classification based on parent material or transportation mechanisms, agricultural classification based on particle size and fertility, and engineering classification based on particle size and engineering behavior. The purpose of engineering soil classification is to group soils with similar properties and to provide a common language by which to express general characteristics of soils.

Engineering soil classification can be done based on soil particle size and by soil plasticity. Particle size is straightforward. Soil plasticity refers to the manner in which water interacts with the soil particles. Soils are generally classified into four groups using the Unified Soil Classification System, depending on the size of the majority of the soil particles (ASTM D 3282, AASHTO M 145).

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The Foundation Engineering Handbook, Second Edition Manjriker Gunaratne, 2013-11-26 Considering how structures interact with soil and building proper foundations is vital to ensuring public safety and to the longevity of buildings Understanding the strength and compressibility of subsurface soil is essential to the foundation engineer The Foundation Engineering Handbook Second Edition provides the fundamentals of foundation engineering needed by professional engineers and engineering students It presents both classical and state of the art design and analysis techniques for earthen structures and examines the principles and design methods of foundation engineering needed for design of building foundations embankments and earth retaining structures It covers basic soil mechanics and soil and groundwater modeling concepts along with the latest research results What's New in the Second Edition Adds alternative analytical techniques to nearly every chapter Supplements existing material with new content Includes additional applications in the state of the art such as unsaturated soil mechanics analysis of transient flow through soils deep foundation construction monitoring based on thermal integrity profiling and updated ground remediation techniques Covers reliability based design and LRFD load resistance factor design concepts not addressed in most foundation engineering texts Provides more than 500 illustrations and over 1 300 equations The text serves as an ideal resource for practicing foundation and geotechnical engineers as well as a supplemental textbook for both undergraduate and graduate levels Geotechnical Engineering of Dams, 2nd Edition Robin Fell, Patrick MacGregor, David Stapledon, Graeme Bell, Mark Foster, 2014-11-21 Geotechnical Engineering of Dams 2nd edition provides a comprehensive text on the geotechnical and geological aspects of the investigations for and the design and construction of new dams and the review and assessment of existing dams The main emphasis of this work is on embankment dams but much of the text particularly those parts related to geology can be used for concrete gravity and arch dams All phases of investigation design and construction are covered Detailed descriptions are given from the initial site assessment and site investigation program through to the preliminary and detailed design phases and ultimately the construction phase The assessment of existing dams including the analysis of risks posed by those dams is also discussed This wholly revised and significantly expanded 2nd edition includes a lengthy new appendix on the assessment of the likelihood of failure of dams by internal erosion and piping This valuable source on dam engineering incorporates the 200 years of collective experience of the authors in the subject area Design methods are presented in combination with their theoretical basis to enable the reader to develop a proper understanding of the possibilities and limitations of a method For its practical well founded approach this work can serve as a useful guide for professional dam engineers and engineering geologists and as a textbook for university students *Using the Engineering Literature* Bonnie A. Osif, 2016-04-19 With the encroachment of the Internet into nearly all aspects of work and life it seems as though information is everywhere However there is information and then there is correct appropriate and timely information While we might love being able to turn to

Wikipedia for encyclopedia like information or search Google for the thousands of links **Practical Handbook of Soil, Vadose Zone, and Ground-Water Contamination** J. Russell Boulding, Jon S. Ginn, 2016-04-19 A synthesis of years of interdisciplinary research and practice the second edition of this bestseller continues to serve as a primary resource for information on the assessment remediation and control of contamination on and below the ground surface Practical Handbook of Soil Vadose Zone and Ground Water Contamination Assessment Prev **Mechanics of Residual Soils, Second Edition** Geoffrey E. Blight, Eng Choon Leong, 2012-05-03 Residual soils are found in many parts of the world and are used extensively as construction materials for roads embankments and dams and to support the foundations of buildings bridges and load bearing pavements The characteristics and engineering properties of residual soils can differ significantly from those of the more familiar transported soils The fact that residual soils occur often in areas with tropical and sub tropical climates and extensively in semi arid climates adds another dimension to their engineering performance that of unsaturation Although there are many books that deal with the mechanics of soils these are based mainly on the characteristics and behaviour of saturated transported soils The first edition of this book was the first book to be written specifically about the mechanics of residual soils The book was prepared by a panel of authors drawn from the Technical Committee on Tropical and Residual Soils of the International Society for Soil Mechanics and Foundation Engineering It was written as a practical professional guide for geotechnical engineers working with residual soils The second edition has retained the valuable information contained in the first edition The present editors and authors have extensively revised and augmented the content to bring it completely up to date adding significantly to the sections on unsaturated soil mechanics and expanding the range and number of instructive case histories Furthermore sections on pedocretes dispersive soils and karst have been added [EPA-600/2](#) ,1979 *Geotechnical Engineering (Theory & Practicals)* Neelima Satyam, 2025-06-01

Catalog of Copyright Entries. Third Series Library of Congress. Copyright Office, 1972 [Pile Foundations in Engineering Practice](#) Shamsher Prakash, Hari D. Sharma, 1991-01-16 This is a concise systematic and complete treatment of the design and construction of pile foundations Discusses pile behavior under various loadings and types of piles and their installation including consideration of soil parameters It provides step by step design procedures for piles subject to vertical loading and pullout lateral inclined and eccentric loads or dynamic loads and for piles in permafrost Also describes load test procedures and their interpretation and buckling of long slender piles with and without supported length The closing chapter presents case histories of prediction and performance of piles and pile groups Includes numerous solved problems

Advanced Triaxial Testing of Soil and Rock Robert T. Donaghe, Ronald C. Chaney, Marshall L. Silver, 1988 Although the triaxial compression test is presently the most widely used procedure for determining strength and stress deformation properties of soils there have been no books published on triaxial testing since the 1962 second edition of the landmark work *The Measurement of Soil Properties in the Triaxial Test* by Bishop and Henkel It is apparent there is a need to document

advances made in triaxial testing since publication of Bishop and Henkel's book and to examine the current state of the art in a forum devoted solely to triaxial testing Because of increasing versatility brought about by recent developments in testing techniques and equipment it is also important that the geotechnical profession be provided with an up to date awareness of potential uses for the triaxial test Overview *Bridge Engineering Handbook* Wai-Fah Chen, Lian Duan, 2023-01-27 First Published in 1999 The Bridge Engineering Handbook is a unique comprehensive and state of the art reference work and resource book covering the major areas of bridge engineering with the theme bridge to the 21st century This second volume includes sections covering substructure design and seismic design **Principles of Soil Chemistry, Fourth Edition** Kim H. Tan, 2011-07-08 Learn the secrets of soil chemistry and its role in agriculture and the environment Examine the fundamental laws of soil chemistry how they affect dissolution cation and anion exchange and other reactions Explore how water can form water bridges and hydrogen bonding the most common forces in adsorption chelation and more Discover how electrical charges develop in soils creating electrochemical potentials forcing ions to move into the plant body through barriers such as root membranes nourishing crops and plants You can do all this and more with Principles of Soil Chemistry Fourth Edition Since the first edition published in 1982 this resource has made a name for itself as a textbook for upper level undergraduates and as a handy reference for professionals and scientists This fourth edition reexamines the entire reach of soil chemistry while maintaining the clear concise style that made previous editions so user friendly By completely revising updating and incorporating a decade's worth of new information author Kim Tan has made this edition an entirely new and better book See what's new in the Fourth Edition Reexamines atoms as the smallest particle that will enter into chemical reactions by probing new advances testifying the presence of subatomic particles and concepts such as string theory Underscores oxygen as the key element in soil air and atmosphere for life on earth Reevaluates the idea of transformation of orthoclase into albite by simple cation exchange reactions as misleading and bending scientific concepts of ion exchange over the limit of truth Examines the role of fertilizers sulfur pyrite acid rain and nitrogen fixation in soil acidity underscoring the controversial effect of nitrification on increasing soil acidity over time Addresses the old and new approaches to humic acids by comparing the traditional operational concept against the currently proposed supramolecular and pseudomicellar concept Proposes soil organics such as nucleic acids of DNA and others to also adsorb cation ions held as diffusive ion clouds around the polymers Tan explains in easy and simple language the chemical make up of the four soil constituents their chemical reactions and interactions in soils as governed by basic chemical laws and their importance in agriculture industry and the environment He differentiates soil chemistry from geochemistry and physical chemistry Containing more than 200 equations 123 figures and 38 tables this popular text and resource supplies a comprehensive treatment of soil chemistry that builds a foundation for work in environmental pollution organic and inorganic soil contamination and potential ecological health and environmental health risks **Bridge Engineering Handbook, Second Edition** Wai-Fah Chen, Lian Duan, 2014-01-24 Over

140 experts 14 countries and 89 chapters are represented in the second edition of the Bridge Engineering Handbook This extensive collection highlights bridge engineering specimens from around the world contains detailed information on bridge engineering and thoroughly explains the concepts and practical applications surrounding the subject Published in five books Fundamentals Superstructure Design Substructure Design Seismic Design and Construction and Maintenance this new edition provides numerous worked out examples that give readers step by step design procedures includes contributions by leading experts from around the world in their respective areas of bridge engineering contains 26 completely new chapters and updates most other chapters It offers design concepts specifications and practice as well as the various types of bridges The text includes over 2 500 tables charts illustrations and photos The book covers new innovative and traditional methods and practices explores rehabilitation retrofit and maintenance and examines seismic design and building materials The third book Substructure Design contains 11 chapters addressing the various substructure components What's New in the Second Edition Includes new chapter Landslide Risk Assessment and Mitigation Rewrites the Shallow Foundation chapter Rewrites the Geotechnical Consideration chapter and retitles it as Ground Investigation Updates the Abutments and Retaining Structures chapter and divides it into two chapters Abutments and Earth Retaining Structures This text is an ideal reference for practicing bridge engineers and consultants design construction maintenance and can also be used as a reference for students in bridge engineering courses

Deep-Sea Sediments Anton Inderbitzen, 2013-03-08 As part of its continuing program to stimulate superior basic research in the marine environment the Office of Naval Research Ocean Science and Technology Division sponsored a series of closed seminar workshops in 1972 1973 Each seminar focused upon one research area of marine geology which is relatively new and in need of a critical evaluation and accelerated support The subjects areas chosen for the seminars were 1 natural gases in marine sediments and their mode of distribution 2 nephelometry and the optical properties of ocean waters 3 physical and engineering properties of deep sea sediments and 4 physics of sound in marine sediments The objectives of each seminar workshop were to bring into sharper focus the state of the science within each subject area to effect some degree of coordination among the investigators working within each of these areas and to provide the Ocean Science and Technology Division guidance for national program support This volume contains most of the papers presented at the seminar on the physical and engineering properties of deep sea sediments The seminar was held at Airlie House Airlie Virginia on April 24 27 1973 and was organized and chaired by A Inderbitzen The attendees were invited from among the leading investigators in this field from both the engineering and scientific disciplines Each attendee was requested to prepare a paper within his area of specialty

The Mechanics of Soils and Foundations John Atkinson, 2017-12-21 Ideal for undergraduates of geotechnical engineering for civil engineers this established textbook sets out the basic theories of soil mechanics in a clear and straightforward way combining both classical and critical state theories and giving students a good grounding in the subject which will last right through into a career as a geotechnical

engineer The subject is broken down into discrete topics which are presented in a series of short focused chapters with clear and accessible text that develops from the purely theoretical to discussing practical applications Soil behaviour is described by relatively simple equations with clear parameters while a number of worked examples and simple experimental demonstrations are included to illustrate the principles involved and aid reader understanding

Laterite Soil Engineering M Gidigas, 2012-12-02 Laterite Soil Engineering is one of a few books about solving engineering problems with the help of engineering pedology This book presents the latest information on the laterite soils geotechnical characteristics and engineering behavior It shows that laterite soils are different from natural soils and that most laterite soils can be evaluated for engineering purposes using accepted theories and well known test procedures for temperate zone soils This book also shows that modern concepts based on pedological considerations are very useful and take a logical approach to the identification and evaluation of laterite soils for engineering purposes The first four chapters focus on reviewing information about the processes of tropical weathering and laterization Chapter five summarizes information about the location morphology and composition of laterite soils Chapter six highlights the geotechnical implications of the pedogenic processes of tropical weathering and it emphasizes the contribution of the results of these pedogenic processes to the deviations of engineering behavior of the problem of laterite soils In addition chapter seven discusses the influence of laterite soil genesis on the physic chemical characteristics based on comparing the properties of three genetic soil groups formed under three different weathering conditions Chapters eight through nineteen discuss the geotechnical characteristics and evaluation of laterite soils and the effects of pedogenesis and soil forming factors on the geotechnical and stabilization characteristics of laterite soils The last chapter discusses the little information that exists on the application of laterite soils in engineering problems

Analysis and Prediction of Soil Behaviour T. S. Nagaraj, B. R. Srinivasa, 1994 This Book Brings Out The Possibilities Of Generalizations Of Behaviour Of Soils And Hence Of Predicting The Required Engineering Properties Without Elaborate Testing We Recognize That A Single Approach Cannot Be Evolved For All Soil Types And Hence The Necessity For Classifying Soils Into Different Categories And To Use Appropriate Model For Each First Of All Based On Mechanism Of Stress Transfer And Interaction Between The Phases Two Obvious Classes The Fine Grained And Coarse Grained Soils Have Been Differentiated The Discussions Bring Out That Because Of Identical Mode Of Stress Transfer The Mechanical Behaviour I E Compressibility Shear Strength Relations Permeability Variations Etc Can Be Generalized For All Fine Grained Soils Enabling The Prediction Of Behaviour Of Such Soils With Just The Knowledge Of Certain State And Index Properties The Sequence Of Discussion Is On The Characterization Of Specific Soil States And Prediction Of Proportion Starting From The Ideal Saturated Uncemented Soils Both Normally And Over Consolidated Cemented Saturated Soils And Partly Saturated Soils In Dealing With The Behaviour Of Coarse Grained Soils The Importance Of Microfabric And The Difficulties In Possible Generalizations Are Discussed Perhaps The Unique Feature Of This Book Is That The Division Of The Chapters Is Based On

Different Soil States All The Mechanical Behaviours Being Discussed Under Each Soil State The Book Will Be Of Interest To Both Academicians And Practising Engineers Researchers And Postgraduate Students It Would Serve As A Textbook For Undergraduate Students With Prior Knowledge Of Basic Soil Mechanics **Problem Solving in Soil Mechanics** A.

Aysen,2021-07-13 Written for university students taking first degree courses in civil engineering environmental and agricultural engineering Problem Solving in Soil Mechanics stimulates problem solving learning as well as facilitating self teaching Generally assuming prior knowledge of subject necessary basic information is included to make it accessible to readers new to the topic Filled with worked examples new and advanced topics and with a flexible structure that means it can be adapted for use in second third and fourth year undergraduate courses in soil mechanics this book is also a valuable resource for the practising professional engineer as well as undergraduate and postgraduate students Primarily designed as a supplement to Soil Mechanics Basic Concepts and Engineering Applications this book can be used by students as an independent problem solving text since there are no specific references to any equations or figures in the main book

Research Reporting Series ,1976 **Design and Construction of Covers for Solid Waste Landfills** R. J. Lutton,G. L. Regan,Lawrence W. Jones,1979

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