

Chapter 11

INSTRUCTIONS FOR LOGGING SOILS

General

All subsurface investigations of soils for construction materials and for most engineering purposes using test pits, trenches, auger holes, drill holes, or other exploratory methods should be logged and described using the standards in *USDA 5002 (1)* and *5004 (1)* (Unified Soil Classification System (USCS)) in accordance with the established descriptive criteria and descriptors presented in chapter 9 and the guidelines presented in this section.

All investigations associated with land classification for vegetation suitability, as well as data collection and analysis of soil and materials related to drainage investigations, should be logged and described using the U.S. Department of Agriculture terminology outlined in appendix 1 to *Agriculture Handbook No. 436 (2a)* (Taxonomy), dated December 1975 (2).

Test pits and auger holes may be logged on a form (Figure 11-1), or logs may be computer generated. For metric design studies and specifications, information is to be in metric units. For specifications using English units, the written soil description should use metric units for the description of soil particle sizes (millimeters instead of inches). Example word descriptions are shown in Figures 11-2 through 11-11.

Chapter 11 Engineering Geology Field Manual

Patricia Sutch



Chapter 11 Engineering Geology Field Manual:

Engineering Geology Field Manual, 1991 **Engineering Geology Office Manual**, 1988 Geology Study Manual Patricia Sutch, 2003 **Engineering Geology** Heinrich Ries, Thomas Leonard Watson, 1925 **Foundation Engineering Handbook 2/E** Robert W. Day, 2010-09-13 A fully up to date practical guide to foundation engineering Revised to cover the 2009 International Building Code Foundation Engineering Handbook Second Edition presents basic geotechnical field and laboratory studies such as subsurface exploration and laboratory testing of soil rock and groundwater samples The book then discusses the geotechnical aspects of foundation engineering including conditions commonly encountered by design engineers settlement expansive soil and slope stability Details on the performance or engineering evaluation of foundation construction and the application of the 2009 International Building Code are included in this valuable resource FOUNDATION ENGINEERING HANDBOOK SECOND EDITION COVERS Subsurface exploration Laboratory testing Soil mechanics Shallow and deep foundations Bearing capacity and settlement of foundations Foundations on expansive soil Slope stability Retaining walls Foundation deterioration and cracking Geotechnical earthquake engineering for soils foundations and retaining walls Grading and other soil improvement methods Foundation excavation underpinning and field load tests Geosynthetics and instrumentation 2009 International Building Code regulations for soils and foundations *Foundation Engineering Handbook* Robert W. Day, 2006 Publisher Description The Heritage of Engineering Geology George A. Kiersch, 1991 One of the synthesis volumes of the Decade of North American Geology Project celebrating the 100th anniversary of the GSA It covers the history and development of engineering geology engineering works relating to geological processes construction materials and the environs of works geological **The Quarterly Journal of Engineering Geology**, 1998 **Handbook of Geology in Civil Engineering** Robert Ferguson Legget, Paul Frederick Karrow, 1983 Engineering and Mining Journal, 1878 **The United States Catalog** Mary Burnham, Carol Hurd, 1928 **HRIS Abstracts** National Research Council (U.S.). Highway Research Information Service, National Research Council (U.S.). Highway Research Board, 1980 *Oildom*, 1922 Annual Book of ASTM Standards ASTM International, American Society for Testing and Materials, 2003 *Walford's Guide to Reference Material: Science and technology* Albert John Walford, 1993 Cette bibliographie commentee touche tous les domaines du savoir humain soit de l'Art a la Zoologie elle signale les ouvrages les plus importants soit des bibliographies des index des encyclopedies des dictionnaires des guides des revues etc dont le support ed information est soit du papier soit un cd rom soit une base de donnees en ligne directe soit un microforme ect L objectif du guide Walford est de devenir La source d information sur tout type de reference nonobstant le support technique **Photogrammetric Engineering**, 1960 Includes lists of members of the Society **Underground Structures** R. S. Sinha, 1991 This book and its complimentary volume Underground Structures Design and Instrumentation together should serve the engineering and construction needs of planners executives geologists civil structural and

geotechnical engineers who are interested in the design construction and operation of underground structures

Geomorphology for Engineers P. G. Fookes, E. Mark Lee, George C. Milligan, 2005 Geomorphological landforms and processes exert a strong influence on surface engineering works yet comparatively little information on geomorphology is available to engineers Thoroughly revised and with an improved format this book presents a broad view of geomorphology examining near surface engineering problems associated with various landscapes Self contained chapters contributed by leading authorities first address the major factors that control the materials form and processes on the Earth's surface The second section deals with the geomorphological processes that help shape land surfaces and influence their engineering characteristics and the final section explore environments and landscapes **Geotechnical abstracts**, 1984

Hydrogeology Field Manual, 2e Willis D. Weight, 2008-01-28 Dramatically Improve Your Hydrogeology Field Skills and Master New Advances in Groundwater Science The Second Edition of Hydrogeology Field Manual provides the latest information on applied applications in groundwater sampling and water quality assessment aquifer characterization contamination issues karst applications and more The book includes actual procedures real world decisions and many examples and case studies to help you understand the occurrence and movement of groundwater in a variety of geologic settings Filled with tips tricks of the trade and anecdotes from seasoned field hydrogeologists the book explains how to gain instant expertise in most field methodologies and expand your abilities for data interpretation and other essential skills The Second Edition of Hydrogeology Field Manual features Sage advice on how to collect hydrogeologic field data Guidance on drilling methods safety and work with drilling contractors A practical description of slug testing Effective site characterization methods Expert advice on monitoring well design Over 250 skills building illustrations and photos Two new chapters on karst hydrogeology including characterization and performing dye tracer tests All chapters have new material including more examples and worked problems If you are still in college a recent graduate or a working professional needing a ready reference to assist you with field related matters this is your book Experienced hydrogeologists and those in related fields will also welcome the practical time saving and trouble avoidance tips Capitalize on Cutting Edge Techniques of Field Hydrogeology Field Hydrogeology The Geology of Hydrogeology Aquifer Properties Basic Geophysics of the Shallow Subsurface Groundwater Flow Groundwater Surface Water Interaction Water Chemistry Sampling and Results Drilling and Well Completion Pumping Tests Aquifer Hydraulics Slug Testing Vadose Zone Karst Hydrogeology Tracer Tests Dye Trace Testing

Chapter 11 Engineering Geology Field Manual Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Chapter 11 Engineering Geology Field Manual**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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