

Manual *of* Soil Laboratory Testing

3rd Edition

K. H. Head



Manual Of Soil Laboratory Testing

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Manual Of Soil Laboratory Testing:

Manual of Soil Laboratory Testing K. H. Head, 1992 This volume the first in a set of three is a vital working manual which covers the basic tests for the classification and compaction characteristics of engineering soils It will therefore be an essential practical handbook for all engaged on the testing of soils in a laboratory for building and civil engineering purposes Based on the author's experience over many years managing large soil testing laboratories particular emphasis has been placed on ensuring that procedures are fully understood Each test procedure has therefore been broken down into simple stages with each step being clearly described The use of flow diagrams and the setting out of test data and calculations will be of great benefit especially for the newcomer to soil testing The book is complemented with many numerical examples which illustrate the methods of calculation and graphical presentations of typical results The reporting of test data is also explained Vital information on good techniques laboratory safety the calibration of measuring instruments essential checks on equipment and laboratory accreditation are all included A basic knowledge of mathematics physics and chemistry is assumed but some of the fundamental principles that are essential in soil testing are explained where appropriate Professionals academics and students in geotechnical engineering consulting engineers geotechnical laboratory supervisors and technicians will all find this book of great value Book jacket Manual of Soil Laboratory Testing: Effective stress tests K. H. Head, 1980 Manual of Soil Laboratory Testing Kenneth H. Head, 1980 *Manual of Soil Laboratory Testing, Soil Classification and Compaction Testing* K. H. Head, 1980-07-16 *Manual of Soil Laboratory Testing, Effective Stress Tests* K. H. Head, 1992 Volume three of this text covers soil testing in terms of effective stress for which the measurement of pore water pressure is the essential feature The principle and theory of effective stress are explained practical applications are outlined and the apparatus used including its calibration and checking is described **Manual of Soil Laboratory Testing, Soil Classification and Compaction Tests** K. H. Head, 1992-03-25 **Manual of Soil Laboratory Testing, Permeability, Shear Strength and Compressibility Tests** K. H. Head, 1996-03-01 **Manual of Soil Laboratory Testing** K. H. Head, Roger Epps, 2014 This 3rd volume completes the long established key handbook for the laboratory testing of soils The text covers soil testing in terms of effective stress for which the measurement of pore water pressure is the essential feature The principle and theory of effective stress are explained practical applications are outlined and the apparatus used including its calibration and checking is described The book has been updated to reflect current practice and instrumentation using electronic data capture The first two chapters provide the theory These are followed by a description of the apparatus and associated instrumentation for effective stress triaxial tests and then the test procedures themselves A description of the accelerated permeability test and procedures for unconsolidated undrained and consolidated undrained triaxial compression tests using a mid height pore pressure probe have been added and reference to changes due to Eurocode 7 requirements for sample quality are provided as required **Manual of Soil Laboratory Testing** Kenneth H

Head, ELE International, 1982 *Manual of Soil Laboratory Testing, Third Edition* K. H. Head, Roger Epps, 2011-09-16 This volume provides a comprehensive working manual for the laboratory testing of soils for civil engineers It is an essential practical handbook for all who are engaged in laboratory testing of soils as well as being of great value to professional engineers consultants academics and students in geotechnical engineering Revised and updated the contents reflect current practice in standard laboratory test procedures for determining some of the important engineering properties of soils The authors have had many years experience in managing large soil testing laboratories since the early 1950s through to the present day whilst actively contributing to the development of geotechnical testing through training courses lectures committees and working groups They recognise that it is particularly important for test methods to be fully understood and a step by step approach has therefore been used in presenting each section The test procedures comprise the measurement of soil permeability CBR value drained and undrained shear strength and consolidation characteristics Additional material in this new edition includes the Fall cone procedure for measurement of shear strength in clays based on the European Technical Specification a simplified direct approach and a useful arrangement for applying pressures in multistage triaxial tests to meet the requirements of BS1377 The latest requirements for calibration of equipment and measuring devices are presented and discussed together with the significance of quality assurance based on recognised laboratory accreditation to ISO IEC 17025 Descriptions of test methods are complemented by many numerical examples in order to illustrate the methods for recording test data making calculations presenting graphical plots and deriving test results Fundamental principles are explained where appropriate so that the operator can have a better understanding of the significance of the tests and guidance is given where experience has shown that difficulties may be encountered The importance of good techniques essential checks on test equipment and laboratory safety are all emphasised *Manual of Soil Laboratory Testing* K. H. Head, 1982 *Manual of Soil Laboratory Testing, Permeability, Quick Shear Strength and Compressibility Tests* K. H. Head, 1980 *Manual of Soil Laboratory Testing* K. H. Head, 1984 *Manual of Soil Laboratory Testing* K. H. Head, R. J. Epps, 2014 **Manual of Soil Laboratory Testing 3 V Set** Head, 1986-07-01 **Manual of Soil Laboratory Testing**, 2008 Annotation This is the second volume of three that provides a comprehensive working manual for the laboratory testing of soils for civil engineering purposes It is an essential practical handbook for all who are engaged in laboratory testing of soils as well as being of great value to professional engineers consultants academics and students in geotechnical engineering The contents have been revised and updated to reflect current practice in standard laboratory test procedures for determining some of the important engineering properties of soils The authors have had many years experience in managing large soil testing laboratories since the early 1950s through to the present day whilst actively contributing to the development of geotechnical testing through training courses lectures committees and working groups They recognise that it is particularly important for test methods to be fully understood and a step by step approach has

therefore been used in presenting each section The test procedures comprise the measurement of soil permeability CBR value drained and undrained shear strength and consolidation characteristics Additional material in this new edition includes the Fall cone procedure for measurement of shear strength in clays based on the European Technical Specification a simplified direct approach and a useful arrangement for applying pressures in multistage triaxial tests to meet the requirements of BS1377 The latest requirements for calibration of equipment and measuring devices are presented and discussed together with the significance of quality assurance based on recognised laboratory accreditation to ISO IEC 17025 Descriptions of test methods are complemented by many numerical examples in order to illustrate the methods for recording test data making calculations presenting graphical plots and deriving test results Fundamental principles are explained where appropriate so that the operator can have a better understanding of the significance of the tests and guidance is given where experience has shown that difficulties may be encountered The importance of good techniques essential checks on test equipment and laboratory safety are all emphasised

Manual of Soil Laboratory Testing: Effective stress tests. K. H. Head, 1980

Manual of Soil Laboratory Testing: Permeability, shear strength and compressibility tests K. H. Head, 1980

Soil Testing Laboratory Manual Ming Xiao, 2021-07-30

Manual of Soil Laboratory Testing K. H. Head, R. Epps, 2006 This working manual covers the basic tests for the classification and compaction characteristics of engineering soils The book includes the use of flow diagrams and sets out test data and calculations It is useful to those engaged in the testing of soils in a laboratory for building and civil engineering purposes

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