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many civil engineers leave university with some knowledge of applied mechanics geology and some soil and rock mechanics but often limited grounding in geotechnical engineering this manual examines this complex topic

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manual of geotechnical laboratory soil testing covers the physical index and engineering properties of soils including compaction characteristics optimum moisture content permeability coefficient of hydraulic conductivity compressibility characteristics and shear strength cohesion intercept and angle of internal friction further this manual covers data collection analysis computations additional considerations sources of error precautionary measures and the presentation results along with well defined illustrations for each of the listed tests each test is based on relevant standards with pertinent references broadly aimed at geotechnical design applications features provides fundamental coverage of elementary level laboratory characterization of soils describes objectives basic concepts general understanding and appreciation of the geotechnical principles for determination of physical index and engineering properties of soil materials presents the step by step procedures for various tests based on relevant standards interprets soil analytical data and illustrates empirical relationship between various soil properties includes observation data sheet and analysis results and discussions and applications of test results this manual is aimed at undergraduates senior undergraduates and researchers in geotechnical and civil engineering prof dr bashir ahmed mir is among the senior faculty of the civil engineering department of the national institute of technology srinagar and has more than two decades of teaching experience prof mir has published more than 100 research papers in international journals and conferences chaired technical sessions in international conferences in india and throughout the world and provided consultancy services to more than 150 projects of national importance to various government and private agencies

covering assessment of ground and soil properties and issues this volume tackles the principles and provides a solid grounding in the discipline of geotechnical engineering

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many civil engineers leave university with some knowledge of applied mechanics geology and some soil and rock mechanics but often limited grounding in geotechnical engineering this manual examines this complex topic

the primary intention of preparing this manual is to apprise the field staff engaged in this job on the objective of laboratory soil testing which is required for the soil investigation work in civil engineering or for building purposes and then to train them on practical soil testing in the laboratory

this volume looks at how to apply geotechnical knowledge in the construction process tackling onsite and practical situations including design

this manual advises readers on real life situations providing an authoritative highly practical and invaluable reference for practising engineers technicians and other construction professionals as well as a comprehensive overview of the topic for students

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