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this authored textbook provides a comprehensive guide to the methods and methodologies currently used in agricultural research covering the entire process from conceptualisation to reporting recognising the interdisciplinary nature of agricultural science the book integrates both biophysical and social science approaches including experimental design on farm research surveys qualitative and mixed methods research and impact evaluation it also addresses both quantitative and qualitative data analysis in addition to methodological

guidance the book offers practical support in scientific writing thesis development journal article publication and science communication theories and concepts are clearly explained using real world examples flow diagrams photographs and case studies to enhance understanding designed to support students and early career researchers this book helps ease the steep learning curve associated with conducting credible ethical and impactful research it will be a valuable resource for students faculty researchers professionals agricultural scientists and policy makers in both national and international contexts

ground improvement has been one of the most dynamic and rapidly evolving areas of geotechnical engineering and construction over the past 40 years the need to develop sites with marginal soils has made ground improvement an increasingly important core component of geotechnical engineering curricula fundamentals of ground improvement engineering addresses the most effective and latest cutting edge techniques for ground improvement key ground improvement methods are introduced that provide readers with a thorough understanding of the theory design principles and construction approaches that underpin each method major topics are compaction permeation grouting vibratory methods soil mixing stabilization and solidification cutoff walls dewatering consolidation geosynthetics jet grouting ground freezing compaction grouting and earth retention the book is ideal for undergraduate and graduate level university students as well as practitioners seeking fundamental background in these techniques the numerous problems with worked examples photographs schematics charts and graphs make it an excellent reference and teaching tool

soil nailing is an in situ soil reinforcement technique that can be used to enhance the stability of slopes retaining walls embankments and excavations it involves installation of closely spaced relatively slender unstressed tension carrying structural elements into the ground to stabilize the soil mass these elements which are called soil nails comprise steel or other engineering materials such as fiber reinforced polymer soil nailing did not gain popularity until the 1970s when engineers started to realize that the technique could offer an effective robust and economical reinforcing system for a variety of ground conditions more importantly the track record has been excellent in that no major collapses have been reported in properly designed and well constructed soil nailed structures so far considerable experience and knowledge of the technique have been gained in the past few decades through systematic technical development work comprising laboratory tests numerical modeling physical modeling site trials and field monitoring covering design and construction practices soil nailing a practical guide consolidates the experience and advances made in the development and use of the soil nailing technique and encourages a wider adoption of the technique by practitioners the book is intended for use by postgraduate students researchers and practicing civil and geotechnical engineers who wish to have a more in depth and fundamental understanding of the theory and practice behind the technique it presents the basic principles of the technique as well as state of the art knowledge and recommended standard of good practice in respect of design construction monitoring and maintenance of soil nailed structures

sponsored by the geo institute of asce this collection of 78 historical papers provides a wide view of the rich body of literature that documents the development of fundamental concepts

geotechnical engineering and their application to practical problems from the highly theoretical to the elegantly practical the papers in this one of a kind collection are significant for their contributions to the geotechnical engineering literature among the writings of more than 60 geotechnical engineering pioneers are several by karl terzaghi widely known as the father of soil mechanics r r proctor arthur casagrande and ralph peck many of these papers contain information as useful today as when they were first written others provide great insight into the origins and development of the field and the thought processes of its leaders

learn the basics of soil mechanics and foundation engineering this hands on guide shows step by step how soil mechanics principles can be applied to solve geotechnical and foundation engineering problems presented in a straightforward engaging style by an experienced pe soil mechanics and foundation engineering fundamentals and applications starts with the basics assuming no prior knowledge and gradually proceeds to more advanced topics you will get rich illustrations worked out examples and real world case studies that help you absorb the critical points in a short time coverage includes phase relations soil classification compaction effective stresses permeability and seepage vertical stresses under loaded areas consolidation shear strength lateral earth pressures site investigation shallow and deep foundations earth retaining structures slope stability reliability based design

revised edition of 1978 publication with major revisions on both the gleysolic and organic orders and minor revisions of the podzolic order soils are classified at the order great group and subgroup levels tabulatedalphabetically according to the names of the orders for each subgroup theabbreviation of the name is appended definitons of soil as opposed tononsoil and of the unit of soil being classified plus basic definitions ofsoil horizons are included also included are correlations of canadian soiltaxonomy with other systems terminology for describing soils and landformclassifications

270 expert contributions on aspects of landslide hazards encompassing geological modeling and soil and rock mechanics landslide processes causes and effects and damage avoidance and limitation strategies reference source for academics and professionals in geo mechanical and geo technical engineering and others involved with research des

the objectives of this project were to collect review and summarize current state highway department pavement procedures and develop recommendations for revisions to the aasho interim guides for the design of both rigid and flexible pavements

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