

originally published in the fall of 1983 braja m das seventh edition of principles of foundation engineering continues to maintain the careful balance of current research and practical field applications that has made it the leading text in foundation engineering courses featuring a wealth of worked out examples and figures that help students with theory and problem solving skills the book introduces civil engineering students to the fundamental concepts and application of foundation analysis design throughout das emphasizes the judgment needed to properly apply the theories and analysis to the evaluation of soils and foundation design as well as the need for field experience important notice media content referenced within the product description or the product text may not be available in the ebook version

this title is a concise combination of the essential components of braja das market leading texts principles of geotechnical engineering and principles of foundation engineering

theoretical foundation engineering provides up to date state of the art reviews of the existing literature on lateral earth pressure sheet pile walls ultimate bearing capacity of shallow foundations holding capacity of plate and helical anchors in sand and clay and slope stability analysis the discussion of the ultimate bearing capacity of shallow foundations is the most comprehensive presentation on the subject to be found anywhere and the review of earth anchors is unique to this book in addition each chapter includes several topics which have never appeared in any other book the treatment is primarily theoretical and does not in any way compete with existing foundation design books this is the only textbook of its kind not only will it be welcomed by teachers and first year graduate students of geotechnical engineering but it will be a useful reference for graduate students and consultants in the the field as well as being a valuable addition to any civil engineering library

master the core concepts and applications of foundation analysis and design with das best selling principles of foundation engineering si 10th edition a must have resource in your engineering education this edition is specifically written for undergraduate civil engineering students like you to provide an ideal balance between today s most current research and practical field applications dr das a renowned author in the field of geotechnical engineering emphasizes how to develop the critical judgment you need to properly apply theories and analysis to the evaluation of soils and foundation design a new chapter discusses the uplift capacity of shallow foundations and helical anchors this edition provides more worked out examples and figures than any other book of its kind along with new learning objectives and illustrative photos that help you focus on the skills most critical for success as a civil engineer webassign s digital resources are also available for review and reinforcement

intended as an introductory text in soil mechanics the sixth edition of das principles of geotechnical engineering offers an overview of soil properties and mechanics together with coverage of field practices and basic engineering procedure with more figures and worked out problems than any other text on the market this text also provides the background information needed to support study in later design oriented courses or in professional practice

the first comprehensive guide to shallow foundations over the last few decades the bearing

capacity of shallow foundations has been studied more thoroughly than any other subject in geotechnical engineering until now however most references on foundation engineering devoted only a single chapter to the subject shallow foundations bearing capacity and settlement provides what many engineers have been waiting for a concise comprehensive reference containing all the relevant material on shallow foundation behavior under static and dynamic loads related to their ultimate bearing capacity allowable bearing capacity and settlement estimation techniques earthquake loading and experimental results the author a renowned expert presents the various theories developed during the past fifty years for estimating the ultimate bearing capacity of shallow foundations under various types of loading and subsoil conditions he discusses the principles of estimating foundation settlement and for estimating the stress increase in a soil mass supporting a foundation earthquake loading and its effects on ultimate bearing capacity have received considerable attention in recent years and the author provides an overview of these developments he also offers details regarding permanent foundation settlement caused by cyclic and transient loading details derived from laboratory and field experimental observations progress in soil reinforcement researchers have made steady progress in evaluating the potential of soil reinforcement to reduce settlement and increase ultimate and allowable bearing capacities of shallow foundations this book provides an entire chapter on the subject including discussions of the materials used galvanized steel strips geotextile and geogrid the presentation of shallow foundations is clear concise and filled with examples and exercises that illustrate the theory this book stands alone as an in depth authoritative guide to shallow foundation bearing capacities and the effects of different soil types slopes settlement reinforcement and seismic activity researchers students and practicing engineers will all welcome its addition to their reference shelves

this one of a kind definitive reference offers expansive coverage of geotechnical engineering for civil engineering professionals each of the 15 chapters is the work of an engineering expert putting at your disposal a vast source of engineering experience the geotechnical engineering handbook brings together essential information related to the evaluation of engineering properties of soils design of foundations such as spread footings mat foundations piles and drilled shafts and fundamental principles of analyzing the stability of slopes and embankments retaining walls and other earth retaining structures the handbook also covers soil dynamics and foundation vibration to analyze the behavior of foundations subjected to cyclic vertical sliding and rocking excitations environmental geotechnology and foundations for railroad beds comprehensive coverage logical organization and clear discussions make this the tool of choice for both experienced engineers and those just embarking on their careers

written in a concise easy to understand manner introduction to geotechnical engineering 2e presents intensive research and observation in the field and lab that have improved the science of foundation design now providing both u s and si units this non calculus based book is designed for courses in civil engineering technology programs where soil mechanics and foundation engineering are combined into one course it is also a useful reference tool for civil engineering practitioners

principles of soil dynamics is an unparalleled reference book designed for an introductory course on soil dynamics authors braja m das best selling authority on geotechnical engineering and

ramana v gunturi dean of the civil engineering department at the india institute of technology in new delhi present a well revised update of this already well established text the primary focus of the book is on the applications of soil dynamics and not on the underlying principles the material covered includes the fundamentals of soil dynamics dynamic soil properties foundation vibration soil liquefaction pile foundation and slope stability important notice media content referenced within the product description or the product text may not be available in the ebook version

fundamentals of geotechnical engineering combines the essential components of braja das market leading texts principles of geotechnical engineering and principles of foundation engineering the text includes the fundamental concepts of soil mechanics as well as foundation engineering without becoming cluttered with excessive details and alternatives foundations features a wealth of worked out examples as well as figures to help students with theory and problem solving skills das maintains the careful balance of current research and practical field applications that has made his books the leaders in the field important notice media content referenced within the product description or the product text may not be available in the ebook version

the geotechnical engineering handbook brings together essential information related to the evaluation of engineering properties of soils design of foundations such as spread footings mat foundations piles and drilled shafts and fundamental principles of analyzing the stability of slopes and embankments retaining walls and other earth retaining structures the handbook also covers soil dynamics and foundation vibration to analyze the behavior of foundations subjected to cyclic vertical sliding and rocking excitations and topics addressed in some detail include environmental geotechnology and foundations for railroad beds

following the popularity of the previous edition shallow foundations bearing capacity and settlement third edition covers all the latest developments and approaches to shallow foundation engineering in response to the high demand it provides updated data and revised theories on the ultimate and allowable bearing capacities of shallow foundations additionally it features the most recent developments regarding eccentric and inclined loading the use of stone columns settlement computations and more example cases have been provided throughout each chapter to illustrate the theories presented

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