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Developments in Agricultural Engineering, Volume 10: Agricultural Engineering Soil Mechanics

E. McKyes

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Developments in Agricultural Engineering, Volume 10: Agricultural Engineering Soil Mechanics E. McKyes
This book provides an introduction to classical soil mechanics and foundation engineering, and applies these principles to agricultural engineering situations. Theoretical design formulae are given, plus tables and graphs dealing with bearing capacity factors, wall pressure factors, soil cutting numbers and soil mechanical properties. Many example problems of design and analysis are solved in the text, and there are unsolved problems given for each chapter. The text begins with descriptions of soil origins and classification systems, including agricultural classification schemes, and then introduces classical concepts of soil strength and strength measurement techniques in the laboratory and in the field. Soil mechanics is applied to the design of shallow foundations, and the design formulae as well as tables of bearing capacity factors for design use are provided. New research and design findings in the specialized area of tall and heavy farm silos are also given, in addition to deep pile foundation design for heavy structures on very soft soils. Water flow in soils is treated, together with stability of ditch bank slopes and small earth dams, design of retaining walls and pressure pressures in bins and silos, soil erosion and protection methods, soil cutting and tillage design methods, soil compaction analysis, the use of geotextiles and problems of soil freezing. The book is directed primarily at professional university students in Agricultural Engineering, but will also be of interest to scientists working in other engineering branches, landscape architecture, soil physics and the like.

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