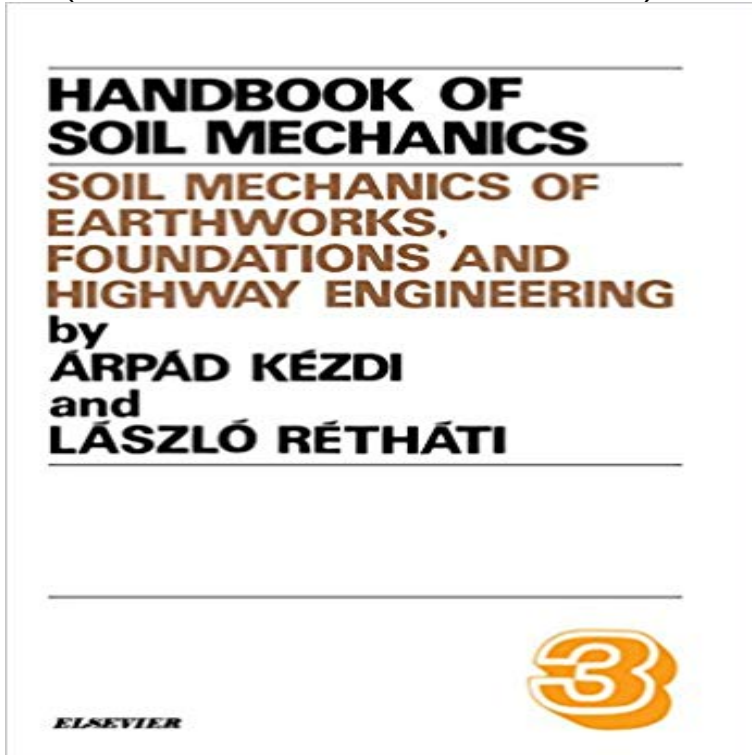


Soil Mechanics of Earthworks, Foundations and Highway Engineering: 3: (Handbook of Soil Mechanics)



This is the third volume of a handbook which covers the whole field of soil mechanics, discussing deterministic and stochastic theories and methods, and showing how they can be used in conjunction with one another. The first volume discusses soil physics, while the second deals with the determination of physical characteristics of the soil. Australian Mining wrote of the Handbook "a valuable addition to the extensive literature on the topic and will be found to be more useful than most. The main objective of the third volume is to present solutions to the problems of engineering practice. It deals with the most important theoretical and practical problems of soil mechanics, discussing the following in detail: stability of earthworks, load-bearing capacity and settlement of shallow foundations, design of pile foundations, soil mechanics in road construction, improving the physical properties of soils, the characteristics of soil dynamics, foundations for machines and soil behaviour as affected by earthquakes. The book not only presents up-to-date deterministic methods, but also discusses solutions of probability theory in the fields of design and safety. The book is divided into six chapters covering the stability of slopes, landslides, load-bearing capacity and settlement of shallow foundations and pile foundations, soil mechanics in road construction, and the improvement of the physical characteristics of soil with special emphasis on machine foundations and earthquakes, giving detailed treatment of each subject. For example, the first chapter deals not only with the stability of slopes, but also discusses the natural and artificial effects, slope protection, filter design, stresses in embankments, and the time factor. In this way, the book gives a clear and comprehensive picture of the special fields of soil mechanics and its subjects. It is therefore eminently suitable for

postgraduate engineers, and engineers working in the fields of geotechnics, earthworks, foundations, road construction, engineering geology and statistics, and the design of structures.

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Chapter 6. Foundations of buildings. 237. 6.1. 6.1.1. 6.1.2. 6.1.3. 6.1.4. 6.1.5. 6.2. **Geology and Construction** - Editorial Reviews. Review Together with the companion volumes, this book provides a Soil Mechanics of Earthworks, Foundations and Highway Engineering: 3: (Handbook of Soil Mechanics) Rev Sub Edition, Kindle Edition. by Author **Soil Mechanics Of Earthworks, Foundations And Highway - Takealot** Soil Mechanics of Earthworks, Foundations and Highway Engineering, Volume Volume 3: (Handbook of Soil Mechanics) - Ebook Detail **Handbook of Soil Mechanics, Volume 3 (eBook, PDF) von Author** 1. Soil Physics Vol. 2. Soil Testing Vol. 3. Soil Mechanics of Earthworks, Foundations and Highway Engineering Vol. 4. 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Handbook of Soil Mechanics, Volume 3: Soil Mechanics of Earthworks, Foundations and Highway Engineering. **Handbook of Soil Mechanics: Soil Mechanics of Earthworks** Soil testing.--v. 3. Soil mechanics of earthworks, foundations and highway engineering.--v. 4. 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