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Ying-Kit Choi walks engineers through standard practices, basic principles, and design philosophy needed to prepare quality design and construction documents for a successful infrastructure project.

Ying-Kit Choi details the guidelines, principles, and philosophy needed to produce design documents for heavy civil engineering projects.

A well-written, hands-on, single-source guide to the professional practice of civil engineering There is a growing understanding that to be competitive at an international level, civil engineers not only must build on their traditional strengths in technology and science but also must acquire greater mastery of the business of civil engineering. Project management, teamwork, ethics, leadership, and communication have been defined as essential to the successful practice of civil engineering by the ASCE in the 2008 landmark publication, Civil Engineering Body of Knowledge for the 21st Century (BOK2). This single-source guide is the first to take the practical skills defined by the ASCE BOK2 and provide illuminating techniques, quotes, case examples, problems, and information to assist the reader in addressing the many challenges facing civil engineers in the real world. Civil Engineer's Handbook of Professional Practice: Focuses on the business and management aspects of a civil engineer's job, providing students and practitioners with sound business management principles Addresses contemporary issues such as permitting, globalization, sustainability, and emerging technologies Offers proven methods for balancing speed, quality, and price with contracting and legal issues in a client-oriented profession Includes guidance on juggling career goals, life outside work, compensation, and growth From the challenge of sustainability to the rigors of problem recognition and solving, this book is an essential tool for those practicing civil engineering.

A must have reference for any engineer involved with foundations, piers, and retaining walls, this remarkably comprehensive volume illustrates soil characteristic concepts with examples that detail a wealth of practical considerations, It covers the latest developments in the design of drilled pier foundations and mechanically stabilized earth retaining wall and explores a pioneering approach for predicting the nonlinear behavior of laterally loaded long vertical and batter piles. As complete and authoritative as any volume on the subject, it discusses soil formation, index properties, and classification; soil permeability, seepage, and the effect of water on stress conditions; stresses due to surface loads; soil compressibility and consolidation; and shear strength characteristics of soils. While this book is a valuable teaching text for advanced students, it is one that the practicing engineer will continually be taking off the shelf long after school lets out. Just the quick reference it affords to a huge range of tests and the appendices filled with essential data, makes it an essential addition to an civil engineering library.

Civil Engineer's Reference Book, Fourth Edition provides civil engineers with reports on design and construction practices in the UK and overseas. It gives a concise presentation of theory and practice in the many branches of a civil engineer's profession and it enables them to study a subject in greater depth. The book discusses some improvements in earlier practices, for example in surveying, geotechnics, water management, project management, underwater working, and the control and use of materials. Other changes covered are from the evolving needs of clients for almost all forms of construction, maintenance and repair. Another major change is the introduction of new national and Euro-codes based on limit state design, covering most aspects of structural engineering. The fourth edition incorporates these advances and, at the same time, gives greater prominence to the special problems relating to work overseas, with differing client requirements and climatic conditions. Chapters 1 to 10 provide engineers, at all levels of development, with 'lecture notes' on the basic theories of civil engineering. Chapters 11 to 44 cover the practice of design and construction in many of the fields of civil engineering. Civil engineers, architects, lawyers, mechanical engineers, insurers, clients, and students of civil engineering will find benefit in the use of this text.

Excerpt from Civil Engineering as Applied in Construction Civil engineering, even in its more restricted signification as applied to works of construction, covers such a wide range that it might reasonably appear somewhat presumptuous for any civil engineer to endeavour to deal with so far-reaching a subject, more especially within the limits of a single volume; and my sole excuse for making the attempt is that nearly ten years ago I unexpectedly received a request from Messrs. Longmans to undertake this onerous task. Possibly the publication of "Achievements in Engineering" in 1891, may have led to the request being addressed to me; but that book, giving descriptions, in a popular form, of some of the most notable engineering works, and only touching incidentally upon the principles involved in their construction for the sake of engineering students, was totally different in scope to this book, which treats primarily of the principles involved in the various branches of engineering construction, and refers to a great variety of works chiefly with the view of illustrating the methods by which these principles receive their practical application. Descriptions of a few important engineering works, in popular language, are comparatively easy of accomplishment; and the facility with which the earlier book was carried out, led me to underrate the difficulties and labour inseparable from the aims of the present book, which, had I appreciated them at the time, would probably have decided me to decline the proposal. Moreover, the leisure at my disposal proved much less than I had anticipated; and, owing to the various professional demands on my time, the preparation of the book has, to my regret, been greatly delayed, so that at times I almost despaired of bringing it to a conclusion; and it was only the courteous consideration accorded me by Messrs. Longmans, and their strongly expressed wish that I should not relinquish the undertaking, that have at last led to the completion of the book according to the scheme originally laid down by me. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at www.forgottenbooks.com This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst repairing imperfections present in the aged copy. In rare cases, an imperfection in the original, such as a blemish or missing page, may be replicated in our edition. We do, however, repair the vast majority of imperfections successfully; any imperfections that remain are intentionally left to preserve the state of such historical works.