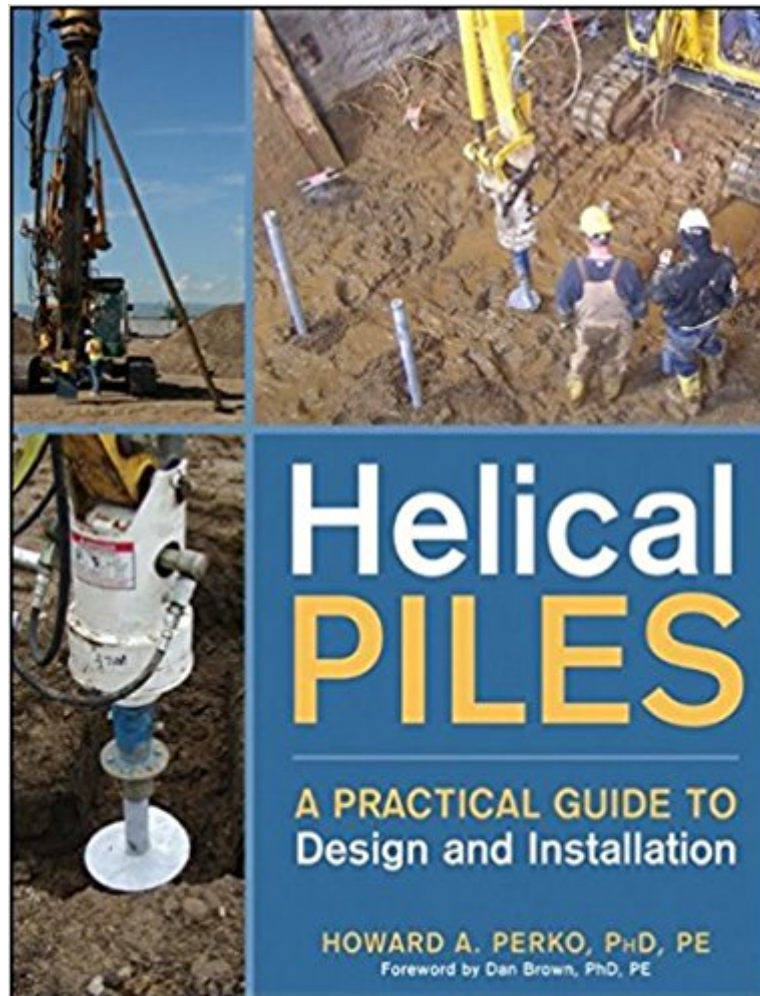


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# Helical Piles: A Practical Guide To Design And Installation



## Synopsis

An unbiased, comprehensive review of helical pile technology and applications Helical piles have risen from being merely an interesting alternative for special cases to a frequently requested, more widely accepted deep foundation adopted into the 2009 International Building Code. The first alternative to manufacturer-produced manuals, Howard Perko's *Helical Piles: A Practical Guide to Design and Installation* answers the industry's need for an unbiased and universally applicable text dedicated to the design and installation of helical piles, helical piers, screw piles, and torque anchors. Fully compliant with ICC-Evaluation Services, Inc., Acceptance Criteria for Helical Foundation Systems and Devices (AC358), this comprehensive reference guides construction professionals to manufactured helical pile systems and technology, providing objective insights into the benefits of helical pile foundations over driven or cast foundation systems, and recommending applications where appropriate. After introducing the reader to the basic features, terminology, history, and modern applications of helical pile technology, chapters discuss: Installation and basic geotechnics Bearing and pullout capacity Capacity verification through torque Axial load testing, reliability, and sizing Expansive soil and lateral load resistance Corrosion and life expectancy Foundation, earth retention, and underpinning systems Foundation economics Select proprietary systems IBC and NYC Building codes Covering such issues of concern as environmental sustainability, *Helical Piles* provides contractors and engineers as well as students in civil engineering with a practical, real-world guide to the design and installation of helical piles.

## Book Information

Hardcover: 528 pages

Publisher: Wiley; 1 edition (October 19, 2009)

Language: English

ISBN-10: 0470404795

ISBN-13: 978-0470404799

Product Dimensions: 7.1 x 1.3 x 9.4 inches

Shipping Weight: 2.4 pounds (View shipping rates and policies)

Average Customer Review: 4.8 out of 5 stars 11 customer reviews

Best Sellers Rank: #455,767 in Books (See Top 100 in Books) #70 in [Books > Crafts, Hobbies & Home > Home Improvement & Design > How-to & Home Improvements > Contracting](#) #250 in [Books > Engineering & Transportation > Engineering > Civil & Environmental > Structural](#) #479 in [Books > Textbooks > Engineering > Civil Engineering](#)

## Customer Reviews

Howard A. Perko, PhD, PE, has sixteen years of consulting engineering experience, is an instructor at Colorado State University, and the Director of Engineering for Magnum Geo Solutions, LLC. Dr. Perko has been active in the Helical Foundations and Tiebacks Committee of the Deep Foundations Institute since 2002, serving as its Chairman since 2008. He is also a member of the editorial advisory board for [helicalpierworld.com](http://helicalpierworld.com).

I must congratulate Howard Perko on his recent publication. In my opinion, it is the first publication that covers all aspects of helical steel screw piles in a manner that is straight forward, practical and based on experience but at the same time carries the academic creditability of a reference book. During the course of ten year business specialising in screw piles in New Zealand we have completed over 350 static compression load tests and a similar number of tension tests. Howard Perko's book generally supports most of the design criteria, test results and installation methods we have tried and tested. This book goes a long way to elevating helical screw piles to an internationally recognised main line piling system. JOHN BUSH CP Eng. PILETECH - NEW ZEALAND

I knew nothing about helical piles/piers prior to exploring the feasibility of building a house down in Panama. Helical piles/piers make total sense to me now as a foundation. The book that Howard Perko wrote is full of information, and most of it so technical I can't really follow it. However, it gives the novice plenty of information that is quite interesting.

A great book to learn more about helical piles.

As advertised. Brand new condition.

Text is well written, concise and though. Good examples and practical use. Uses "LPILE" extensively which most CEs are familiar with and have the software.

Good technical book, with no competition for helical piles

This book is well written and easy to read. The book contains everything from basic geotechnical principles to advanced theory for determining the capacity of helical piles. The book provides easy to

follow examples, photos, drawings, and includes a splash of geotechnical humor. This book is a valuable tool for any engineer but is invaluable to the foundation engineer. The book includes a variety of tables to aid in the design of the piles. The book covers every aspect of helical piles, from design to installation, and testing. I highly recommend this book.

Howard Perko does a great job in his book with mixing experience, along with common sense, into his approach on helical piles. The pictures are a great addition as they tend to tell the info he is trying to convey. This book is also loaded with great references. Great job Howard.

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