

## Pipe And Excavation Contracting Publisher Craftsman Book Co

Pipelayers make an invaluable contribution to building projects large and small, playing a pivotal role in developing and refurbishing our national infrastructure. This book shows young readers how they can explore this fascinating and fulfilling subset of contracting, building a career from the ground up. Combining valuable industry data, engaging on-the-job imagery and potential scenarios, as well as safety and job-seeking tips, this book gives handy students a great glimpse at a trade and field often underrepresented in youth-oriented career training. In order to succeed in a construction business you have to be able to mark up the price of your jobs to cover overhead expenses and make a decent profit. The problem is how much to mark it up. You don't want to lose jobs because you charge too much, and you don't want to work for free because you've charged too little. If you know how much to mark up you can apply it to your job costs and arrive at the right sales price for your work. This book gives you the background and the calculations necessary to easily figure the markup that is right for your business. Includes a CD-ROM with forms and checklists for your use.

Discover BIM: A better way to build better buildings Building Information Modeling (BIM) offers a novel approach to design, construction, and facility management in which a digital representation of the building product and process is used to facilitate the exchange and interoperability of information in digital format. BIM is beginning to change the way buildings look, the way they function, and the ways in which they are designed and built. The BIM Handbook, Third Edition provides an in-depth understanding of BIM technologies, the business and organizational issues associated with its implementation, and the profound advantages that effective use of BIM can provide to all members of a project team. Updates to this edition include: Information on the ways in which professionals should use BIM to gain maximum value New topics such as collaborative working, national and major construction clients, BIM standards and guides A discussion on how various professional roles have expanded through the widespread use and the new avenues of BIM practices and services A wealth of new case studies that clearly illustrate exactly how BIM is applied in a wide variety of conditions Painting a colorful and thorough picture of the state of the art in building information modeling, the BIM Handbook, Third Edition guides readers to successful implementations, helping them to avoid needless frustration and costs and take full advantage of this paradigm-shifting approach to construct better buildings that consume fewer materials and require less time, labor, and capital resources.

Keep construction on track with helpful checklists Turn your dream of a custom home into reality! Thinking about building your own home? This easy-to-follow guide shows you how to plan and build a beautiful home on any budget. From acquiring land to finding the best architect to overseeing the construction, you get lots of savvy tips on managing your new investment wisely -- and staying sane during the process! Discover how to: \* Find the best homesite \* Navigate the plan approval process \* Obtain financing \* Hire the right contractor \* Cut design and construction costs \* Avoid common mistakes

It includes hundreds of tips, pictures, diagrams and tables that every excavation contractor and supervisor can use This revised edition explains how to handle all types of excavation, grading, paving, pipeline and compaction jobs -- whether it's a highway, subdivision, commercial, or trenching job. This edition has been completely rewritten to cover new materials, equipment and techniques. It includes hundreds of tips, pictures, diagrams and tables.

Fences and Retaining Walls, is a practical manual for the fencing professional and has all the information for quality fence work. An important book as well for house builders and home remodelers.

Pipeline contracting can be rewarding work -- or a profitable sideline for any excavation contractor. But not everyone who owns a backhoe is ready to start bidding water, sewer and drainage jobs. This practical manual can help you develop the skills needed to succeed as an underground utility contractor. -- back cover.

A new, expanded edition of the authoritative handbook now available from Industrial Press for the first time.

The newly updated Fourth Edition of CONSTRUCTION JOBSITE MANAGEMENT examines all facets of construction project management from the contractor's point of view. The responsibilities of project managers, construction superintendents, and construction engineers are covered in depth, from configuring a project team through closing out a project. The text maintains a strong focus on jobsite personnel activities, outlining proven procedures and offering helpful techniques to manage projects effectively from start to finish. Clear, concise language and accurate, relevant detail make this book an essential introduction to the real world of construction jobsite management. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

The industry-standard guide to earthmoving and machines?thoroughly revised to cover the latest advances This fully updated resource covers every aspect of site preparation and management, and details the machines and vehicles needed to perform each task. Written by a team of excavation experts, the book helps you choose the right approach for any job, select appropriate equipment, and understand the related safety requirements. You will get clear explanations of the different types of excavation methods, including compaction, grading, blasting, structural excavation, and aggregate production. The text also provides examples of how to calculate machine production. Moving the Earth: Excavation Equipment, Methods, Safety, and Cost, Seventh Edition, covers: •Cost estimation and planning•Soil and rock•Machine fundamentals•Dozers•Land clearing•Excavators and loaders•Trucks and trailers•Scrapers•Structural excavation•Trenching and trenchless technologies•Compaction, stabilization, and finishing•Compressors and drills•Blasting •Aggregate processing

The definitive contracting reference for the construction industry, updated and expanded Construction Contracting, the industry's leading professional reference for five decades, has been updated to reflect current practices, business methods, management techniques, codes, and regulations. A cornerstone of the construction library, this text presents the hard-to-find information essential to successfully managing a construction company, applicable to building, heavy civil, high-tech, and industrial construction endeavors alike. A wealth of coverage on the basics of owning a construction business provides readers with a useful "checkup" on the state of their company, and in-depth exploration of the logistics, scheduling, administration, and legal aspects relevant to construction provide valuable guidance on important facets of the business operations. This updated edition contains new coverage of modern delivery methods, technology, and project management, with sample contracts and documentation and a companion website for additional guidance. The field of construction contracting comprises the entire set of skills, knowledge, and conceptual tools needed to successfully own or manage a construction company, as well as to undertake any actual project. This book gives readers complete, up-to-date information in all of these areas, with expert guidance toward best practices. Learn techniques for accurate cost estimating and effective bidding Understand construction contracts, surety bonds, and insurance Explore project time and cost management, with safety considerations Examine relevant labor law and labor relations techniques Between codes, standards, laws, and regulations, the construction industry presents many different areas with which the

manager needs to be up to date, on top of actually doing the day-to-day running of the business. This book provides it all under one cover – for the project side and the business side, Construction Contracting is a complete working resource in the field or office.

The latest addition to the Oxford Paperback Reference series, this A to Z is the most up-to-date dictionary of building, surveying, and civil engineering terms and definitions available. Written by an experienced team of experts in the respective fields, it covers in over 9,800 entries the key areas of construction technology and practice, civil and construction engineering, construction management techniques and processes, and legal aspects such as contracts and procurement. Illustrations complement entries where necessary and other extra features include a bibliography, appendices providing a list of commonly used conventions, formulae, and symbols, as well as entry-level web links, which are listed and regularly updated on a companion website. Its wide coverage makes it the ideal reference for students of construction and related areas, as well as for professionals in the field.

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Summary: This book presents the properties of concrete as needed in concrete construction, including strength and durability. All concrete ingredients (cementing materials, water, aggregates, admixtures, and fibers) are reviewed for their optimal use in designing and proportioning concrete mixtures. Applicable ASTM, AASHTO, and ACI standards are referred to extensively. The use of concrete from design to batching, mixing, transporting, placing, consolidating, finishing, and curing is addressed. Concrete sustainability, along with special concretes, including high-performance concretes, are also reviewed.

This manual shows you, in simple, easy-to-understand language, how to calculate the amount of dirt you'll have to move, the cost of owning and operating the machines you'll do it with, and finally, how to assign bid prices to each part of the job. Using clear, detailed illustrations and examples, the author makes it easy to follow and duplicate his system. The book ends with a complete sample estimate, from the take-off to completing the bid sheet. Included in this book: -- How to set up & use an organized & logical estimating system -- How to read plans & specs -- Why a site visit is mandatory -- How to assess accessibility & job difficulty -- How soil characteristics can affect your estimate -- The best ways to evaluate subsurface conditions -- Figuring your overhead -- How to get the information you need from contour maps -- When you have to undercut -- Dealing with irregular regions and odd areas -- Factors for estimating swell and shrinkage -- Balancing the job: spoil & borrow -- Calculating machine owning & operating costs -- The two common methods of estimating earthwork quantities

This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. To ensure a quality reading experience, this work has been proofread and republished using a format that seamlessly blends the original graphical elements with text in an easy-to-read typeface. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

For more than 30 years Moving the Earth has been the standard reference on every type of excavation, hauling, & grading equipment, along with the different jobs & ways in which machines are used. Created specifically for contractors, foremen & operators, this big, third edition contains new sections on lasers, automatic grading machinery, paving with asphalt, concrete & soil cement, blacktop manufacture, hydraulic systems & excavators, hydrostatic drives, controlled blasting, chain saws, tree chippers & cutters, & much more. Over 3,200 individual drawings, photos & graphs make every description & procedure crystal clear.

The Construction Chart Book presents the most complete data available on all facets of the U.S. construction industry: economic, demographic, employment/income, education/training, and safety and health issues. The book presents this information in a series of 50 topics, each with a description of the subject matter and corresponding charts and graphs. The contents of The Construction Chart Book are relevant to owners, contractors, unions, workers, and other organizations affiliated with the construction industry, such as health providers and workers compensation insurance companies, as well as researchers, economists, trainers, safety and health professionals, and industry observers.

This working handbook provides invaluable assistance for estimating and planning today's more complex urban and suburban heavy construction rehabilitation projects. Means Heavy Construction Handbook is designed to simplify the task by providing relevant information and advice for the problem at hand... whether it's selecting the right number of haulers for a load and haul job, choosing the right method of compaction, or projecting equipment repair and maintenance costs. You'll find a tremendous range of expert advice on every aspect of heavy construction work... including guidance for using RSMeans cost data to prepare highly reliable estimates. FEATURES: Special benefits of this unique Handbook: Explains the business aspects of buying vs. leasing, maintaining, and accounting for equipment. Includes a major section on site evaluation and hazardous wastes. Provides a comprehensive understanding of heavy construction operations and equipment.

Explains techniques for hazardous waste site assessment and remediation. Provides guidance for analyzing and estimating heavy construction on a unit price basis. Explains and illustrates the math of heavy construction with formulas and sample calculations – solutions to a variety of productivity and operational problems. Provides a substantial Appendix of productivity and other reference data for estimating and project planning. Explains successful management and supervision approaches – including guidance for those who oversee the work.

Everything you need to know to estimate, build, and repair practically every type of roof covering: asphalt shingles, roll roofing, wood shingles & shakes, clay tile, slate, metal, built-up, and elastomeric. Shows how to measure and estimate most roofs (including estimating shortcuts discovered by the author), how to install leak-proof underlayment and flashing, and how to solve problems with insulation, vapor barriers, and waterproofing. Over 300 large, clear illustrations that help you find the answers to all your roofing questions.

This book includes self-test section at the end of each chapter. Test yourself, then check answers in the back of the book to see how you score. CD-ROM included.

From development of the initial requirements to final drawings used in construction, this authoritative reference for the design and drafting of industrial piping systems provides a step-by-step guide to piping design. Created as an in-depth resource for professionals, this piping bible is as valuable in the field as it is in the office or the classroom. Among the topics covered in this encyclopedic survey are techniques of piping design, the assembly of piping from components, processes for connecting piping to equipment, office organization, methods to translate concepts into finished designs, and terms and abbreviations concerned. An

expansive selection of charts and tables presents a wide array of information--frequently used data; factors for establishing pipeways width; spacing between pipes with and without flanges and for "jumpovers" and "runarounds;" principal dimensions and weights for key components; conversion for customary and metric units; direct-reading metric conversion tables for dimensions and data; and a metric supplement with principal dimensional data in millimeters--handily organized for quick reference. This exceptionally produced trainee guide features a highly illustrated design, technical hints and tips from industry experts, review questions and a whole lot more! Key content includes: Finishing and Grading, Compaction Equipment, Backhoes, Off-Road Dump Trucks, Dozers, Excavators, and Motor Graders.

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