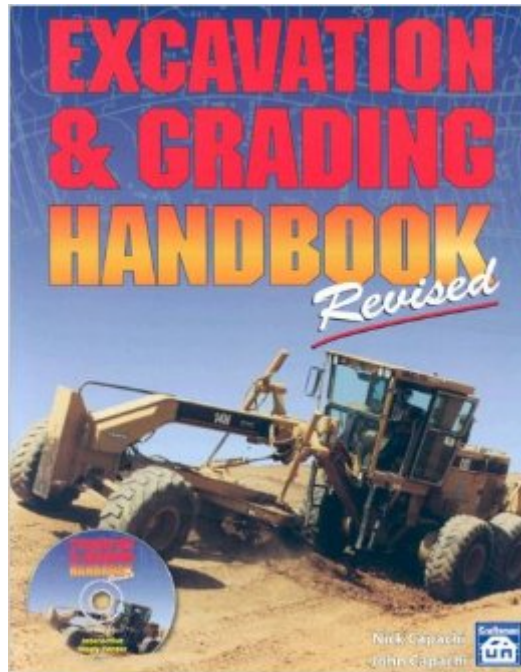


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# Excavation & Grading Handbook



## Synopsis

This new edition of a trusted reference has been completely updated to keep excavating contractors, operating engineers, and those learning the trade current with state-of-the-art equipment usage and the most efficient excavating and grading techniques. Whether you're already in the business, or planning to take the leap, this book borrows from years of down-in-the dirt experiences of trusted authority, Nick Capachi. It's an encyclopedia of excavating and grading knowledge, including photographs and diagrams that illustrate just how the work should be done. Co-written with his son, John, Nick combines their nearly 70 years on the job to teach you -- in simple terms -- just what you need to know to reach and stay at the top of your game. In these pages you'll learn how to read topo maps, set crows feet, install water, drain, and sewer pipes, lay or remove asphaltic concrete, use a laser level, cut drainage channels, pressure-test sewer pipes, and use GPS and sonar for absolute precision. No jobsite is without problems. Knowing how to deal with these problems, or how to prevent them, can save you hours -- even days. In this practical manual, the authors guide you through just about every difficulty you'll find on a job site. You'll find procedures and essential job-sequencing techniques that can make or break a job, plus pointers for tough situations that other earthwork instruction manuals don't want to tackle. **NEW** in this edition: GPS -- Global Positioning System -- a time-saving survey and grade-control tool installed on much of the heavy equipment you'll be using. Also includes use of sonar technologies. Using these two technologies will save you time and money on most of your jobs. **CD-ROM** included: Testing is the best way to learn, so each chapter ends with a set of review questions. The CD-ROM has 250 questions in simple interactive format that makes learning fun. This is an excellent resource for the experienced operator seeking to brush up, or any trainee preparing to take the license exam. You'll find the Interactive Study Center will be your most-valuable study tool.

## Book Information

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## **Customer Reviews**

I am a civil engineer, dedicated to Site Design & Water Resources. My interest for this book was to counteract my few experience in the construction field, like design engineer is very important to know the need of the constructors, in order to prepare good details, specifications and construction methods. This book is a great tool, because was written by Senior constructors. But, I think this book is missing a chapter dedicated to the earthwork computation.

I was given a copy of this book when I was first made a grade setter 18 years ago, and recently purchased this new revision. I have now been a foreman for the past 15 years, every time I'm handed a new set of plans for a job I go back and review the chapters that are relevant to the work I'm preparing to start. I am always a step ahead in large part do to this book! This book is next level and will help take you there, I encourage everyone on my crew who is serious about a career in general engineering to get a copy.

Great detail on cut and fill. Thorough drawings and diagrams. Geared toward the trade but a good primer for those with some experience in construction.

I have been a general engineering contractor for over 30 years and this is the best book I have found to introduce, train and sharpen skills for my employees. Written by father and son who have extensive practical field experience. If you can master the skills in this book you would be an asset to any company.

dated, incomplete, information. apprentice level or useful for office types to help introduce them to field practices. nothing here that journeymen wouldn't already know.

I gave this to my son, he was preparing for his Contractors license's. He said this book helped him so much to understand all the terms they use, and by the way, he did pass his tests!! Woop! Woo[!

My husband used this to study (and pass) his contractors licence test. He said it was helpful and will

likely use it as a reference in the future.

Great book. Very thorough, technical, and to the point. I highly recommend this book to anyone getting started in the excavation business.

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