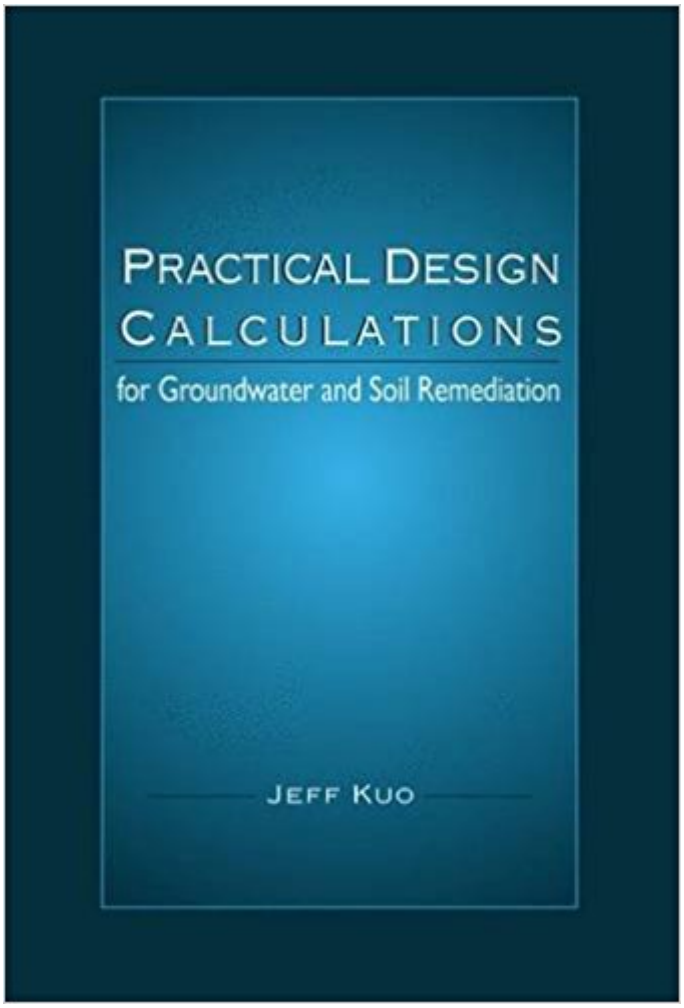
Ebook Directory
the best source of ebook

The book was found

Practical Design Calculations For Groundwater And Soil Remediation



PDF
Adobe
DOWNLOAD EBOOK

Synopsis

Effective and enduring site restoration involves professionals from many branches of science and engineering. Geologists, hydrologists, chemists, microbiologists and meteorologists all play a part in remediation efforts-as do civil, chemical, mechanical and environmental engineers.When the time comes for all-important design calculations, that’s where conflicts between disciplines become apparent. Due to certain differences in educational training, the ability of environmental professionals to perform or review design calculations varies.Bridge the gap with Practical Design Calculations for Groundwater and Soil Remediation. Jeff Kuo’s hands-on experience as a consultant and teacher of soil/groundwater remediation informs this collection of the most practical and relevant working information.Written in a user-friendly, "cookbook-style" format, readers can promptly access the necessary information. More than 200 equations, coupled with tables and figures, allow a clear understanding of purposes and procedures.To match the scope of Practical Design Calculations for Groundwater and Soil Remediation, you would have to comb through numerous publications. You may also be taking a chance on data that’s already obsolete, due to rapid advancements in remediation technologies. One aspect doesn ’t change: basic, straightforward design calculation. Practical Design Calculations for Groundwater and Soil Remediation helps everyone involved in a site restoration project follow the same set of guidelines-for effective results.

Book Information

Hardcover: 288 pages
Publisher: CRC Press; 1 edition (September 17, 1998)
Language: English
ISBN-10: 1566702380
ISBN-13: 978-1566702386
Product Dimensions: 9.5 x 6.4 x 0.8 inches
Shipping Weight: 1.2 pounds
Average Customer Review: 4.6 out of 5 stars 6 customer reviews
Best Sellers Rank: #1,453,673 in Books (See Top 100 in Books) #78 inÃ Â Books > Engineering & Transportation > Engineering > Civil & Environmental > Environmental > Groundwater & Flood Control #322 inÃ Â Books > Engineering & Transportation > Engineering > Civil & Environmental > Environmental > Waste Management #399 inÃ Â Books > Science & Math > Nature & Ecology > Water Supply & Land Use

Customer Reviews

The ’cookbook’ organization makes the text easy to use…It is well organized and the calculations are easy to follow…Kuo has provided a practical way to grasp the crucial information requirements and the major factors that control both basic and innovative remediation processes.--Hans W. Meinardus, in GroundwaterPromo Copy

The text is easy to understand and provides many different calculations relating to the analysis of chemicals, fate and transport in the environment. Some examples however lack developmental background to allow for good engineering deductive reasoning or methodology. I found a few example analysis methods seem counter-intuitive and a little bit more background could aid understanding in these cases.

The concepts covered in this text are fairly well explained. Chapter 2 focuses on characterization and remedial investigation. This section can be useful for those who do UST investigations and soil removal. Here the author runs through the steps used to determine mass and volume of soil excavated from a tank pit and mass and concentration of excavated soil. There are also many useful subsections describing the procedure for determining mass and mole fractions of gasoline components, contamination in the vadose zone, etc.. The author also presents calculations for determining well volume for groundwater sampling. Chapter three covers plume migration in groundwater and soil and the author covers such topics as transmissivity, specific yield and storativity. These topics are not covered in great detail. Aquifer tests are covered and some simple examples are used demonstrating the Theis Method, Cooper-Jacob Straight Line method and Distance-Drawdown method. Not a lot of detail in these sections. Remaining chapters cover mass balance, vadose zone and soil remediation, groundwater remediation and VOC air treatment. Overall a good reference text with a great deal of applicable information.

I have been in the environmental engineering business for 15 years, and I’ve used this book more than any other. The calculations are easy to find, easy to use, and make it simple to teach young engineers the basic concepts of design. The set up of the book is "cook-book" style, so it is easy to find the type of design calculation you’re looking for when needed.

Extremely concise reference that has taken the place of over twenty books on my shelf at work! I only worry I may wear out the spine before my second copy arrives!

It’s a great tool book you must have. Also an excellent textbook for graduate level cources in environmental engineering program. Probably also the only book you can choose as a groundwater analyst.

Great book, very concise. Step by step way of calculating GW problems. Must have for GW and environmental Engineers

Download to continue reading...

Practical Design Calculations for Groundwater and Soil Remediation, Second Edition Practical Design Calculations for Groundwater and Soil Remediation In Situ Chemical Oxidation for Groundwater Remediation (SERDP ESTCP Environmental Remediation Technology) Bioaugmentation for Groundwater Remediation (SERDP ESTCP Environmental Remediation Technology) Practical Techniques for Groundwater and Soil Remediation (Geraghty & Miller Environmental Science and Engineering) Environmental Engineering: Water, Wastewater, Soil and Groundwater Treatment and Remediation (v. 1) Methods of Soil Analysis. Part 2. Microbiological and Biochemical Properties (Soil Science Society of America Book, No 5) (Soil Science Society of America Book Series) Sequenced Reactive Barriers for Groundwater Remediation (AATDF Monograph Series) Pantry Stuffers Rehydration Calculations Made Easy: U.S. Measurements / Pantry Stuffers Rehydration Calculations Made Easy: Metric Measurements Demystifying Opioid Conversion Calculations: A Guide for Effective Dosing (McPherson, Demystifying Opioid Conversion Calculations) Improving Your Soil: A Practical Guide to Soil Management for the Serious Home Gardener Balancing Soil Nutrients and Acidity: The Real Dirt on Cultivating Crops, Compost, and a Healthier Home (The Ultimate Guide to Soil Book 3) Phyto: Principles and Resources for Site Remediation and Landscape Design The Soil Will Save Us: How Scientists, Farmers, and Ranchers Are Tending the Soil to Reverse Global Warming The Soul of Soil: A Soil-Building Guide for Master Gardeners and Farmers, 4th Edition Start With the Soil: The Organic Gardener’s Guide to Improving Soil for Higher Yields, More Beautiful Flowers, and a Healthy, Easy-Care Garden Taylor’s Weekend Gardening Guide to Soil and Composting: The Complete Guide to Building Healthy, Fertile Soil (Taylor’s Weekend Gardening Guides (Houghton Mifflin)) Soil Water and Agronomic Productivity (Advances in Soil Science) Dynamics of WheelÃ¢â ¬â œSoil Systems: A Soil Stress and Deformation-Based Approach (Ground Vehicle Engineering) The Soil Will Save Us: How Scientists, Farmers, and Foodies Are Healing the Soil to Save the Planet