



Practical Design Calculations for Groundwater and Soil Remediation, Second Edition

By Jeff Kuo

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Written in a straightforward style and user-friendly format, **Practical Design Calculations for Groundwater and Soil Remediation, Second Edition** highlights the essential concepts and important aspects of major design calculations used in soil and groundwater remediation. Drawing from the author's teaching and consulting experience, this text provides practical information that addresses the current needs of practicing engineers, scientists, and legal experts in the field.

What's New in This Edition:

This latest edition covers important aspects of major design calculations as well as practical and relevant working information for groundwater and soil remediation. Realistic examples are used liberally to illustrate the applications of the design calculations. Many examples are designed to assist the readers in building the right concepts.

The text begins with an introductory chapter; it then illustrates the engineering calculations needed during site assessment and remedial investigation. It continues with a discussion on plume migration in soil and groundwater. It then covers the mass-balance concept, reaction kinetics, and types, configurations, and sizing of reactors. The author incorporates important design calculations for commonly used *in situ* and *ex situ* soil and groundwater remediation technologies, such as soil venting, air sparging, air stripping, bioremediation, and chemical oxidation, and off-gas treatment technologies. He also presents design calculations for capture zone and optimal well spacing.

- Includes both SI and US customary units, as well as unit conversions
- Presents examples that directly follow the design equations
- Provides discussion that assists engineers in building proper concepts

Practical Design Calculations for Groundwater and Soil Remediation, Second Edition also serves as a reference or textbook for students dedicated to the study of site remediation.

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Editorial Review

Review

"This latest edition of Kuo's book covers important aspects of major design calculations as well as providing practical and relevant working information for groundwater and soil remediation. Realistic examples are used liberally to illustrate the applications of the design calculations... a comprehensive methodological and practical manual, suitable for specialists trained in a variety of technical and educational backgrounds, for the solution of very complicated groundwater and soil remediation requiring a multidisciplinary approach. ...provides practical information that addresses the current needs of practising engineers, scientists and legal experts who are employed by industry, consulting companies, law firms and regulatory agencies in the field of soil and groundwater remediation."

Quarterly Journal of Engineering Geology and Hydrogeology, 2015

About the Author

Jeff (Jih-Fen) Kuo, PhD, PE worked in the environmental engineering industry for more than ten years before joining the Department of Civil and Environmental Engineering at California State University, Fullerton in 1995. His industrial experience in environmental engineering includes design and installation of air strippers, activated-carbon adsorbers, soil vapor extraction systems, bioremediation systems, and flare/catalytic incinerators for groundwater and soil remediation. Dr. Kuo earned a BS degree in chemical engineering from National Taiwan University, an MS in chemical engineering from the University of Wyoming, an MS in petroleum engineering, and an MS and a PhD in environmental engineering from the University of Southern California. He is a registered civil, chemical, and mechanical engineer in California.

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