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James R. Mihelcic is a Professor of Civil and Environmental Engineering and State of Florida 21st Century World Class Scholar at the University of South Florida. He directs the Peace Corps Master's International Program in Civil & Environmental Engineering. Dr. Mihelcic is a

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Environmental Engineering: Fundamentals, Sustainability, Design presents civil engineers with an introduction to chemistry and biology, through a mass and energy balance approach. ABET required topics of emerging importance, such as sustainable and global engineering are also covered. Problems, similar to those on the FE and PE exams, are integrated at the end of each chapter. Aligned with the National Academy of Engineering's focus on managing carbon and nitrogen, the 2nd edition now includes a section on advanced technologies to more effectively reclaim nitrogen and phosphorous. Additionally, readers have immediate access to web modules, which address a specific topic, such as water and wastewater treatment. These modules include media rich content such as animations, audio, video and interactive problem solving, as well as links to explorations. Civil engineers will gain a global perspective, developing into innovative leaders in sustainable development.

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How will we meet rising energy demands? What are our options? Are there viable long-term solutions for the future? Learn the fundamental physical, chemical and materials science at the heart of:

- Renewable/non-renewable energy sources
- Future transportation systems
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Written by an environmental consultant with more than 20 years of experience, and based on a

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course he taught for 10 years, *Environmental Consulting Fundamentals: Investigation and Remediation* introduces the basic building blocks of environmental consulting. Rather than formulas and equations, it emphasizes the thought processes that go into designing an environmental study, interpreting the data, and selecting the next step—be it further investigation or remediation. The book begins with an overview of environmental consulting, the regulatory structures that impact the work, and the underlying science of environmental processes. It then takes you through the steps of subsurface investigations and remediations, from Phase I and Phase II Environmental Site Assessments through to remedial actions. This is followed by an outline of ecological risk assessment and mitigation and a chapter on environmental impact assessments, a large subfield in environment consulting. Moving indoors, the book then covers environmental issues related to buildings, including asbestos, lead-based paint, radon, mold, and indoor air quality. The final chapter describes a typical environmental consulting project, from designing the scope of work to developing a prospective budget and project schedule. Throughout, photographs, illustrations, and examples of environmental problems make the theoretical concepts more concrete. A primer for those interested in a career in this dynamic, multidisciplinary field, this is also a handy reference for practicing consultants. Combining theory and practical advice, it provides an accessible introduction to the type of projects you may encounter as an environmental consultant.

*Environmental Inorganic Chemistry for Engineers* explains the principles of inorganic contaminant behavior, also applying these principles to explore available remediation technologies, and providing the design, operation, and advantages or disadvantages of the

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various remediation technologies. Written for environmental engineers and researchers, this reference provides the tools and methods that are imperative to protect and improve the environment. The book's three-part treatment starts with a clear and rigorous exposition of metals, including topics such as preparations, structures and bonding, reactions and properties, and complex formation and sequestering. This coverage is followed by a self-contained section concerning complex formation, sequestering, and organometallics, including hydrides and carbonyls. Part Two, Non-Metals, provides an overview of chemical periodicity and the fundamentals of their structure and properties. Clearly explains the principles of inorganic contaminant behavior in order to explore available remediation technologies Provides the design, operation, and advantages or disadvantages of the various remediation technologies Presents a clear exposition of metals, including topics such as preparations, structures, and bonding, reaction and properties, and complex formation and sequestering

Mihelcic and Zimmerman introduce the field of environmental engineering by engaging the student in the comprehensive development of basic principles as well as providing a strong focus on designing for sustainability. The breadth of content and level of treatment is appropriate for undergraduate courses in environmental engineering. By grounding their approach on the elements of design, the authors instruct students in how to use the tools of green engineering to design for sustainability and the future of our planet and its inhabitants. The book has been designed to be covered, essentially in its entirety, in one semester. -- Publisher description.

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Natural Water Remediation: Chemistry and Technology considers topics such as metal ion solubility controls, pH, carbonate equilibria, adsorption reactions, redox reactions and the kinetics of oxygenation reactions that occur in natural water environments. The book begins with the fundamentals of acid-base and redox chemistry to provide a better understanding of the natural system. Other sections cover the relationships among environmental factors and natural water (including biochemical factors, hydrologic cycles and sources of solutes in the atmosphere). Chemical thermodynamic models, as applied to natural water, are then discussed in detail. Final sections cover self-contained applications concerning composition, quality measurement and analyses for river, lake, reservoir and groundwater sampling. Covers the fundamentals of acid-base and redox chemistry for environmental engineers Focuses on the practical uses of water, soil mineral and bedrock chemistry and how they impact surface and groundwater Includes applications concerning composition, quality measurement and analyses for river, lake, reservoir and groundwater sampling

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