



Civil Engineer's Handbook of Professional Practice

By Karen Hansen, Kent Zenobia

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A well-written, hands-on, single-source guide to the professional practice of civil engineering

There is a growing understanding that to be competitive at an international level, civil engineers not only must build on their traditional strengths in technology and science but also must acquire greater mastery of the business of civil engineering. Project management, teamwork, ethics, leadership, and communication have been defined as essential to the successful practice of civil engineering by the ASCE in the 2008 landmark publication, *Civil Engineering Body of Knowledge for the 21st Century (BOK2)*. This single-source guide is the first to take the practical skills defined by the ASCE BOK2 and provide illuminating techniques, quotes, case examples, problems, and information to assist the reader in addressing the many challenges facing civil engineers in the real world. *Civil Engineer's Handbook of Professional Practice*:

- Focuses on the business and management aspects of a civil engineer's job, providing students and practitioners with sound business management principles
- Addresses contemporary issues such as permitting, globalization, sustainability, and emerging technologies
- Offers proven methods for balancing speed, quality, and price with contracting and legal issues in a client-oriented profession
- Includes guidance on juggling career goals, life outside work, compensation, and growth

From the challenge of sustainability to the rigors of problem recognition and solving, this book is an essential tool for those practicing civil engineering.



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Editorial Review

From the Back Cover

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About the Author

KAREN LEE HANSEN, PHD, is Professor of Civil Engineering and Construction Management at California State University. She holds a master of science in construction engineering and management and a doctorate in civil engineering from Stanford University. A former engineering manager at The Boeing Company, Dr. Hansen has worked as a senior project manager and construction engineer for large general contractors in the commercial and industrial sectors. She is a Certified Design-Build Professional, a member of the ASCE and AIA, and has worked with diverse organizations including BAA, Bechtel, City of Los Angeles, Department of Trade and Industry (London), EPA, École Alsacienne (Paris), Ove Arup (London), the Tokyo Institute of Technology, and the Universities of Brighton, Loughborough, Salford, Strathclyde, and Sussex in the UK.

KENT E. ZENOBIA, PE, BCEE, works for the California Department of Water Resources as the Chief of the Project Delivery Branch responsible for major flood reduction and site restoration construction projects. He previously served as a senior program manager at URS Corporation and chief environmental engineer for Kleinfelder. He has more than thirty-five years of professional technical and engineering management experience. He is a Fellow of ASCE, a registered engineer in nine states, and a Board Certified Environmental Engineer, and recognized as a national expert in environmental engineering by the American Academy of Environmental Engineering. He has authored or coauthored significant reports, papers, and articles for clients such as the U.S. Navy, DuPont, Intel, NASA, BP/ARCO, Shell Oil, and the U.S. Air Force, among others.

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