



Introduction to Environmental Engineering

By P. Aarne Vesilind, Susan M. Morgan, Lauren G. Heine

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This text presents a balanced treatment of environmental engineering by combining engineering concepts with the importance of environmental ethics. This third edition highlights sustainable development and emphasizes the need for engineers to become even more environmentally responsible during this time of increasing awareness of environmental concerns. The authors challenge students with problems that require not only a technical solution but a thorough consideration of its ethical ramifications. The text also provides comprehensive exposure to all types of environmental problems, including ecosystem dynamics, wastewater treatment, and air pollution control.

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Editorial Review

About the Author

P. Aarne Vesilind received his undergraduate degree in civil engineering from Lehigh University and his Ph.D. in environmental engineering from the University of North Carolina. He spent a post-doctoral year with the Norwegian Institute for Water Research in Oslo and a year as a research engineer with Bird Machine Company. He joined the faculty of Duke University in 1970 where he served as chair of the Department of Civil and Environmental Engineering. In 1999, he was appointed to the R. L. Rooke Chair of the Historical and Societal Context of Engineering at Bucknell University. He served in this capacity until his retirement in 2006.

Morgan received her B.S. in civil engineering from Southern Illinois University Carbondale. A recipient of a National Science Foundation Fellowship, she earned her Ph.D. in environmental engineering from Clemson University. She joined the faculty in the Department of Civil Engineering at Southern Illinois University Edwardsville in 1996. From 1999-2007 she served as the Graduate Program Director for the Department. Currently she is a tenured professor and Department Chair. She is a licensed professional engineer in Illinois. Dr. Morgan has been active on the Environmental Technical Committee of the St. Louis Section of the American Society of Civil Engineers and in the St. Clair Chapter of the Illinois Society of Professional Engineers. She has received multiple awards including the National Society of Professional Engineers' Young Engineer of the Year Award in 2001. She is a member of several honor societies, including Chi Epsilon and Tau Beta Pi, as well as other engineering organizations. She has conducted research in a variety of areas. Currently her focus is on stormwater management, particularly through the use of green roofs.

Heine earned her doctorate in Civil and Environmental Engineering from Duke University. She is one of America's leading experts in applying green chemistry, green engineering, and design for the environment for sustainable business practices. As Senior Science Advisor for Clean Production Action and as Principal for the Lauren Heine Group, she guides organizations seeking to integrate green chemistry and engineering into their product and process design and development activities - eliminating toxics and the concept of waste and moving toward economic, environmental and community sustainability. Specific areas of expertise include the development of technical tools and strategies for identifying greener chemicals, materials, and products and facilitation of multi-stakeholder initiatives - particularly those that are technically based.

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