



# Introduction to Infrastructure: An Introduction to Civil and Environmental Engineering

By Michael R. Penn, Philip J. Parker

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*Introduction to Infrastructure: An Introduction to Civil and Environmental Engineering* breaks new ground in preparing civil and environmental engineers to meet the challenges of the 21<sup>st</sup> century. The authors use the infrastructure that is all around us to introduce students to civil and environmental engineering, demonstrating how all the parts of civil and environmental engineering are interrelated to help students see the "big picture" in the first or second year of the curriculum.

Students learn not only the *what* of the infrastructure, but also the *how* and the *why* of the infrastructure. Readers learn the infrastructure is a system of interrelated physical components, and how those components affect, and are affected by, society, politics, economics, and the environment. Studying infrastructure allows educators and students to develop a valuable link between fundamental knowledge and the ability to apply that knowledge, so students may translate their knowledge to new contexts.

The authors' implementation of modern learning pedagogy (learning objectives, concrete examples and cases, and hundreds of photos and illustrations), and chapters that map well to the ABET accreditation requirements AND the ASCE Civil Engineering Body of Knowledge 2<sup>nd</sup> edition (with recommendations for using this text in a 1, 2, or 3 hour course) make this text a key part of any civil and/or environmental engineering curriculum.

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