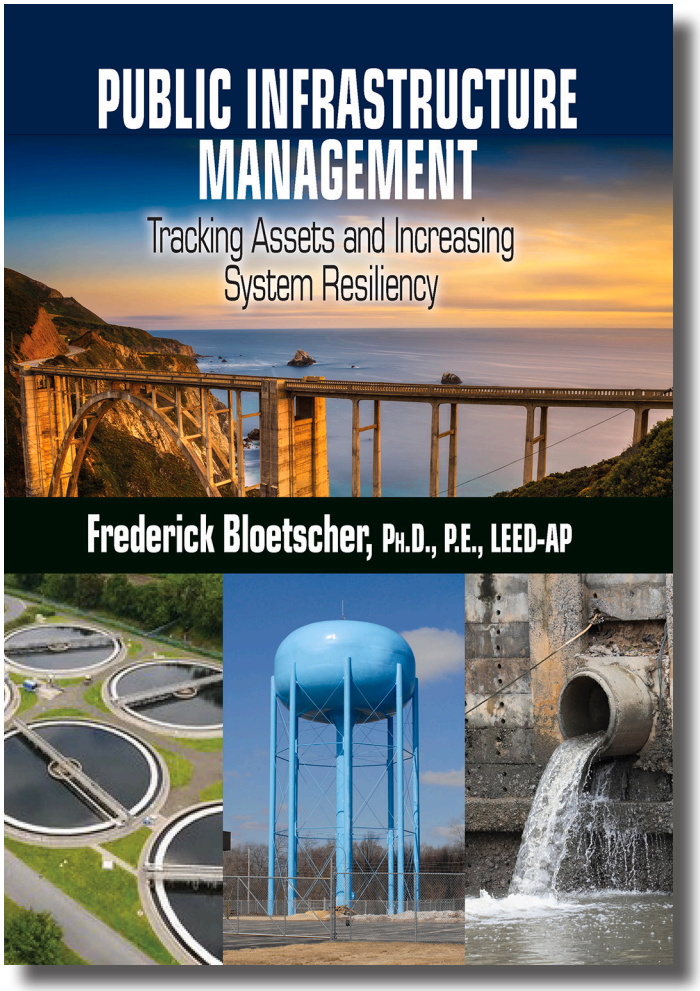

Public Infrastructure Management

Tracking Assets and Increasing System Resiliency

Frederick Bloetscher

This book addresses the long-term maintenance, repair, and replacement of public infrastructure in a practical, cost effective manner. Fixing our public infrastructure is essential for public health and safety and is fast becoming a national priority. This title provides an overview of the major public works infrastructure systems (water, sanitary sewer, stormwater, roads, bridges, and railways), including components, operational goals, maintenance, areas where failure can occur, and ways to address failure. Risk and vulnerability to these systems are evaluated and guidance on how to create a condition index (assessment), given limited data, is provided. Recommendations on budgeting strategies and capital planning are also discussed and designed to bring the risk, vulnerability, and condition indices together into a thorough decision-making process. It is a must read for anyone involved in public infrastructure management, including professional civil and environmental engineers, utility managers, local government managers and officials, urban and regional planners, and civil and environmental engineering students.

Key Features

• Presents an overview of the components and maintenance needs of major public infrastructure systems

• Includes critical case studies from around the United States where public infrastructure has failed, followed by the lessons learned

• Features over 200 color figures and 75 tables to illustrate major points throughout the book, including the components of public water, sanitary sewer, and stormwater management system

Frederick Bloetscher is currently a Professor of Civil, Environmental & Geomatics Engineering and Associate Dean for Undergraduate Studies and Community Outreach at Florida Atlantic University in Boca Raton, Florida. His research focus has been on urban infrastructure systems, particularly public water, stormwater, and sewer systems and their sustainability. He teaches the capstone senior design sequence at FAU, plus classes in water/wastewater, construction, environmental engineering and modeling, hydraulics, and infrastructure management. He is also the author of *Practical Concepts for Capstone Design Engineering.*

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