



Public Infrastructure Asset Management, Second Edition (P/L Custom Scoring Survey)

By Waheed Uddin, W. Ronald Hudson, Ralph C.G. Haas



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The Latest Tools and Techniques for Managing Infrastructure Assets

Fully updated throughout, this practical resource provides a proven, cost-effective infrastructure asset management framework that integrates planning, design, construction, maintenance, rehabilitation, and renovation. *Public Infrastructure Asset Management*, Second Edition, describes the most current methodologies for effectively managing roads, bridges, airports, utility services, water and waste facilities, parks, public buildings, and sports complexes.

This comprehensive guide covers information management and decision support systems, including proprietary solutions and new technological developments such as cloud storage. The book discusses total quality management, economics, life-cycle analysis, and maintenance, rehabilitation, and reconstruction programming. Up-to-date examples and real-world case studies illustrate the practical applications of the concepts presented in this thoroughly revised reference.

This new edition features:

- Planning, needs assessment, and performance indicators
- Database management, data needs, and analysis
- Inventory, historical, and environmental data
- In-service monitoring and evaluation data
- Performance modeling and failure analysis
- Design for infrastructure service life
- Construction
- Maintenance, rehabilitation, and reconstruction strategies, policies, and treatment alternatives
- Dealing with new or alternate concepts
- Prioritization, optimization, and work programs
- Integrated infrastructure asset management systems
- Visual IMS: an illustrative infrastructure management system and applications
- Available asset management system and commercial off-the-shelf providers

- Benefits of implementing an asset management system
- Sustainability, environmental stewardship, and asset management
- Future directions for infrastructure asset management

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Editorial Review

About the Author

Waheed Uddin is Professor of Civil Engineering and Director of Center for Advanced Infrastructure Technology (CAIT) at The University of Mississippi. A former pavement expert for the United Nations, Dr. Uddin has contributed to highway and airport infrastructure management projects in the U.S. and many countries worldwide. He is a pioneer in airborne laser mapping and satellite imagery applications in transportation and disaster impact assessment and coauthor of *Infrastructure Management*.

W. Ronald Hudson is the Dewitt C. Greer Centennial Professor of Civil Engineering Emeritus at The University of Texas at Austin and Senior Consultant at AgileAssets, Inc. He is a pioneer in developing and applying management systems to pavements, bridges, and other civil infrastructure assets. Dr. Hudson is co-author of *Modern Pavement Management* and *Infrastructure Management*.

Ralph Haas is the Norman W. McLeod Engineering Professor and Distinguished Professor Emeritus in the Department of Civil Engineering at the University of Waterloo in Ontario, Canada. He holds country's highest civilian honor, the Order of Canada and the highest academic honor, Fellow of the Royal Society of Canada. An innovator in pavement design and civil infrastructure management systems, Dr. Haas is coauthor of *Modern Pavement Management* and *Infrastructure Management*.

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