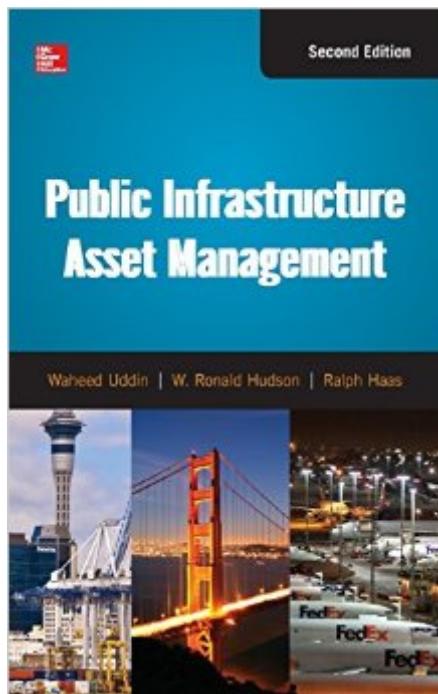


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# Public Infrastructure Asset Management, Second Edition



## Synopsis

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

## Book Information

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## Customer Reviews

This is one of the most important book in the area of infrastructure asset management available in the market. If you are a civil engineer or interested in public infrastructure asset management, this is a must to read book.

One of the worst text books I've ever had to read and incredibly expensive for what it was. I was in a facility-flavored asset management course. The authors of this book clearly have a background heavily into transportation."Engineering Systems: Meeting Human Needs in a Complex Technological World" by Oliver de Weck is a far better book on the subject.

The second edition of infrastructure management has some very useful updates. The authors have taken a lot of effort to make necessary changes to update to the current times. I felt the examples of latest events incorporated are of biggest help in understanding the concepts better. Also, the effort made to cover the global perspective (including developed, developing and under developed nations) so it can be adapted and understood better is also noteworthy. Overall, the much awaited new version does not disappoint.

With our aging infrastructures, current shrinking resource, the theme everywhere of doing more with less, this book is a great start to look at ways to manage any assets to address challenges some industries are faced with. The authors have done a great job to provide up to date step by step on how to manage your assets and how to find a suitable solution to save time and money. I highly recommend this book and intend to use it as textbook for my next class.

As a researcher, every part of the book is relevant to my need. But most amazing part of the book is how it is structured like PhD thesis. I am really happy to own the book.

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