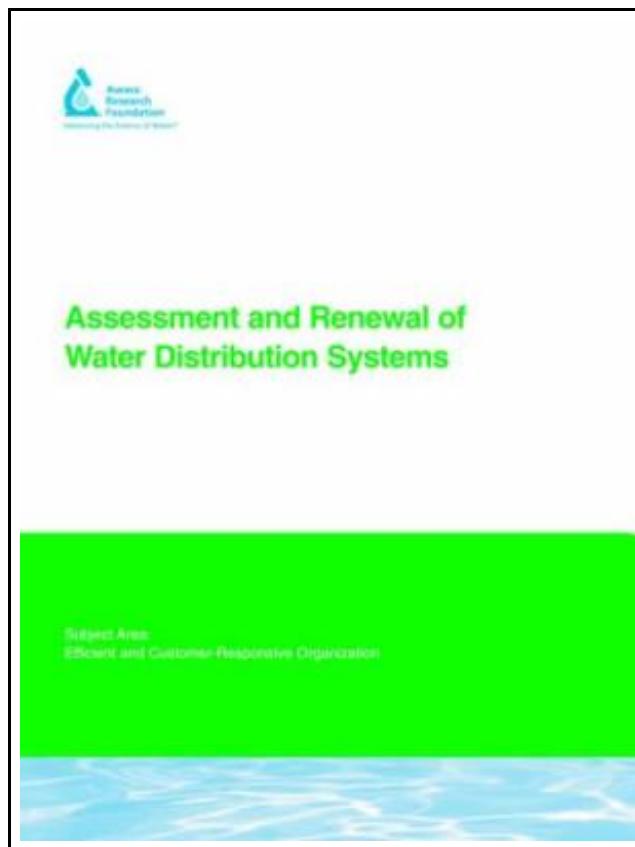


# Assessment and Renewal of Water Distribution Systems



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Iwa Publishing, United Kingdom, 2005. Paperback. Book Condition: New. 234 x 156 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*. Water utilities use their distribution systems to deliver high quality water to customers in spite of breaks, corrosive deterioration, and other forces. These aging and invisible water distribution networks, spread over large areas with multiple connections and points-of-access, require large allocations of capital resources for renewal. Needs studies began to appear around 1980 after implementation of the Safe Drinking Water Act converged with emerging awareness of national infrastructure investment needs and with the ramp-up of AwwaRF programs. To succeed in capital management, utilities must locate, assess, plan, repair, and renew their water distribution systems. However, management technologies for these tasks are in flux and utilities require guidance. The objectives of this project were to synthesize the knowledge base on condition assessment, repair and rehabilitation, and prioritization; to expand the knowledge base to lead to optimal capital management strategies for utilities; to help plan a responsive research agenda for the water supply industry; to help utilities use results of research projects; and to provide a critical evaluation and an assessment of requirements for implementing tools. The project included a synthesis of the knowledge base, interviews with utilities, and three workshops, including an international workshop. A number of working papers and workshop summaries were prepared, and the project results have been merged into the final report. An ?issue tree? is used to show the components of the management problem and to provide a structure for analysis of problems. It shows the what, why, who, how, and when of the management problem. The report offers a framework for condition assessment to provide a common ground to exchange information. This is consistent with the findings in the field of benchmarking, where...

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