



# Cost Estimating Manual for Water Treatment Facilities

By Susumu Kawamura, William T. McGivney



**Cost Estimating Manual for Water Treatment Facilities** By Susumu Kawamura, William T. McGivney

**NOTE TO THE READER:** All forms and material that were previously on a CD-ROM that accompanied this book have been moved to the following web site: <http://booksupport.wiley.com>

## **Tested-and-proven techniques for quick, accurate estimates**

Here is the first manual that guides engineers, planners, and contractors through the process of estimating the cost of building water treatment facilities. Based on more than eighty years of the two authors' collective experience, the *Cost Estimating Manual for Water Treatment Facilities* not only enables you to arrive at a dependable estimate, it shows you how to do it quickly with a minimum of information and supporting data.

In order to ensure reliability, the authors have compiled and analyzed the results from their own construction cost estimates for more than 500 projects as well as the results from many other engineers and contractors. The manual identifies forty-three treatment processes, nine types of water treatment plants, plus five additional types of advanced water treatment plants. The authors then demonstrate how to calculate costs for each element, accounting for needed mark-ups and allowances in order to arrive at the total plant construction cost.

To help you make your own estimates, the manual provides:

- Examples of cost estimates for different water treatment processes
- Historical data from several public agencies
- Sample tables for 10 mgd and 100 mgd product water flow rates for each type of treatment plant
- Website access with Excel spreadsheets that enable you to perform estimates using your own data

Now that the *Cost Estimating Manual for Water Treatment Facilities* is available, you no longer have to rely on hunches and anecdotal information; you have a proven, scientific method that leads to reliable estimates.

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### Editorial Review

From the Back Cover

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#### About the Author

**WILLIAM T. MCGIVNEY, MS Resource Economics**, is Principal Vice President for Professional Services at DRMcNatty & Associates, Inc. He has more than thirty years of experience in construction project management as a chief estimator, construction services manager, project controls manager, and contractor. He has taught at California State Polytechnic University, Pomona, under the ABET program, which invites industry leaders to share their professional experience with students. Mr. McGivney has also assisted government agencies in the United States, as well as the Philippines, Egypt, Argentina, and Australia.

**SUSUMU KAWAMURA, PhD, PE**, is President of Kawamura Water Engineering, Inc. Dr. Kawamura has close to five decades of experience in every facet of water treatment facility design and operation. He has been involved in over 120 projects and is the author of more than ninety technical publications, as well as five books in three languages, including *Integrated Design and Operation of Water Treatment Facilities, Second Edition* (Wiley). He is a registered professional engineer in five states (Arizona, California, Nevada, Ohio, and Utah) as well as Japan. Dr. Kawamura taught graduate courses at University of Southern California for fifteen years starting in 1980. He was inducted into the AWWA Water Industry Hall of Fame in 2008.

## **Users Review**

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#### **Bobby Hanke:**

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