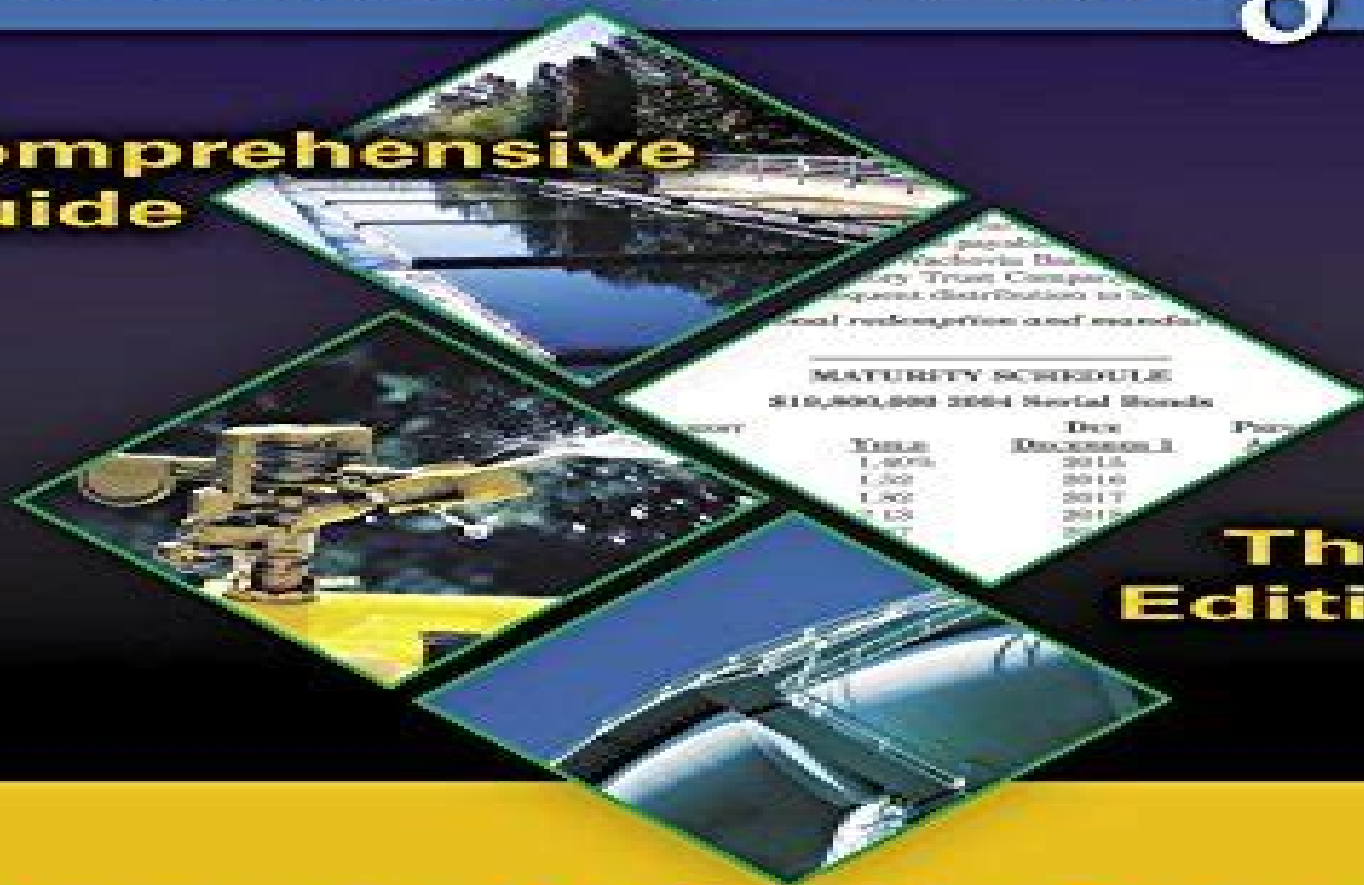


# Water and Wastewater Finance and Pricing

**A  
Comprehensive  
Guide**



**Third  
Edition**

**George A. Raftelis**



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# Comprehensive Guide To Water And Wastewater Finance And Pricing

**George A. Raftelis**



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**Comprehensive Guide to Water and Wastewater Finance and Pricing** George A. Raftelis, 1992-12-18 *Comprehensive Guide to Water and Wastewater Finance and Pricing Second Edition* provides an updated and expanded examination of the principal aspects of financing and pricing for water and wastewater utilities Organized in two sections this new edition covers everything from privatization and setting rate structures to long term and short term financing Traditional and innovative financing methods and pricing structures are provided The guide also shows how to design appropriate pricing structures to ensure equity and self sufficiency What s new in the Second Edition *Comprehensive Guide to Water and Wastewater Finance and Pricing Second Edition* has been significantly revised and expanded to address current trends in the industry The new edition features expanded discussions of state revolving loan funds SRFs as a financing method for local governments the privatization concept and current incentives and disincentives associated with environmental privatization the impact on public private partnerships of the President s executive order relating to grant funded facilities and proposed tax legislation that could have a significant impact on environmental infrastructure financing The new edition provides a detailed example of how a utility would establish revenue requirements and then structure a set of rates to recover these requirements It also provides a comprehensive chapter on conservation pricing which discusses the background of conservation rates advantages and disadvantages and design considerations of conservation rate structures uniform rates inverted block rates seasonal rates and marginal cost rates Results from Ernst Young s 1992 National Water and Wastewater Survey are supplied as well *Comprehensive Guide to Water and Wastewater Finance and Pricing Second Edition* will be an indispensable reference for water and wastewater management professional engineers U S government officials state and local government planners investment bankers utility entrepreneurs directors of water and wastewater utilities finance managers utility and environmental attorneys and financial and rate consultants

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from which utility professionals can address financial planning and pricing objectives In this volume the lead author and his co authors apply experience gained over the past quarter century working with nearly 1000 utilities throughout the United

Water and Wastewater Finance and Pricing George A. Raftelis, 2014-07-24 A Strategy Guide for Water Utility Managers and Executives and a Compendium of Best Financial Practices for Utility Financial Leaders a How To Guide for Rate and Finance Technicians and a Reference Point for Policymakers Detailing utility financial plans and rate structures and highlighting how they align with community sustainability goals and utility objectives is the focus of the fourth edition of Water and Wastewater Finance and Pricing The Changing Landscape Working from a historical perspective this revised and updated text addresses the current pricing and financial management challenges involved in the water and wastewater industry It builds on the concepts used in the standard manuals of the American Water Works Association and the Water Environment Federation and offers additional insight into the long term sustainability of water systems Provides Practical Applications of Finance and Pricing Approaches This comprehensive guide to financial and pricing practices delves into a number of factors that have impacted how utility finances its capital program and how it structures rates to recover revenue requirements Among numerous management challenges the book addresses such issues as reduced per capita usage and customer demand a weak economy social media balancing community environmental sustainability with financial sufficiency an increased focus on water demand management and efficiency and the concern over rate affordability The author factors in the rate setting process implementing a cost of service and rate model as key input in each chapter and also presents a strong financial and rate plan for achieving long term sustainability What's New in the Fourth Edition Presents cutting edge management approaches and initiatives and the importance of strong financial management in addressing strategic financial and pricing goals Expands the discussion on traditional financing options factoring in the current economic climate Explores in detail how to integrate risk considerations into the development of effective financial and rate plans Includes techniques for projecting demand by retail wholesale and other customer classes Provides methodologies for the development of water reuse wholesale and wheeling rates Contains computer models that include scenario builders rate dashboards and graphical presentations of key rate and financing concepts Discusses effective public education approaches to gain stakeholder support of a utility's financial and rate plan Introduces triple bottom line concepts into selecting an appropriate financial and rate plan Expands the concepts of water and wastewater financial planning into the stormwater discipline Water and Wastewater Finance and Pricing The Changing Landscape Fourth Edition focuses on water and wastewater financial management and pricing and is geared toward professionals assigned to develop water and wastewater financial plans and rates senior managers with the responsibility for the long term financial sustainability of the utility investors evaluating the financial strength of utilities engineers consultants planning water and wastewater facilities academics teaching financial and pricing principles as a part of public policy curriculum regulators needing to understand the financial viability of utilities under their

purview and policy makers desiring to support effective financial and rate plans for their constituencies     Water and Wastewater Finance and Pricing George A. Raftelis, 2014-07-24 A Strategy Guide for Water Utility Managers and Executives and a Compendium of Best Financial Practices for Utility Financial Leaders a How To Guide for Rate and Finance Technicians and a Reference Point for Policymakers Detailing utility financial plans and rate structures and highlighting how they align with community sustainability goals and     Water, Wastewater, and Stormwater Infrastructure Management Neil S. Grigg, 2012-06-08 Urban water services are building blocks for healthy cities and they require complex and expensive infrastructure systems Most of the infrastructure is out of sight and tends to be taken for granted but an infrastructure financing crisis looms in the United States because the systems are aging and falling behind on maintenance A road map for pu     **Water Resource Economics, second edition** Ronald C. Griffin, 2016-03-11 Updated edition of a comprehensive introduction to the economics of water management with self contained treatment of all necessary economic concepts Economics brings powerful insights to water management but most water professionals receive limited training in it The second edition of this text offers a comprehensive development of water resource economics that is accessible to engineers and natural scientists as well as to economists The goal is to build a practical platform for understanding and performing economic analysis using both theoretical and empirical tools Familiarity with microeconomics or natural resource economics is helpful but all the economics needed is presented and developed progressively in the text The book focuses on the scarcity of water quantity rather than on water quality The author presents the economic theory of resource allocation recognizing the peculiarities imposed by water and then goes on to treat a range of subjects including conservation groundwater depletion water law policy analysis cost benefit analysis water marketing privatization and demand and supply estimation Added features of this updated edition include a new chapter on water scarcity risk with climate change and necessary risk tools introduced progressively and new risk attentive material elsewhere in the text sharper treatment of block rates and pricing doctrine expanded attention to contemporary literature and issues and new appendixes on input output analysis water footprinting and virtual water and cost allocation Each chapter ends with a summary and exercises     **Economics of Water Resources: From Regulation to Privatization** Nicolas Spulber, Asghar Sabbaghi, 2012-12-06 The appearance of this Second Edition has been encouraged by the favorable reception of the first This has offered us the opportunity to update the materials and to expand the exposition of our central theses concerning 1 the integration of water quantity quality issues and the treatment of water as a multi product commodity with the market playing a major role in determining water quality discriminant pricing 2 the drawbacks of public controls regulation and enforcement and the need to expand privatization of water supply and of water and wastewater treatment facilities to ensure their appropriate development and modernization through increased reliance on private capital 3 the unification and centralization of water management on the river basin level in order to handle effectively the expanding pressures for water availability for the elimination of waterborne disease

for extensive and effective pollution abatement as well as coping with the related issues of soil erosion siltation in streams channels and reservoirs protection against distress from drought and floods and with the myriad problems relating to the environment recreation and navigation We have maintained the division of the book into four major parts and 12 chapters

**Nanotechnology in the Beverage Industry** Abdeltif Amrane, Susai Rajendran, Tuan Anh Nguyen, Aymen Amine Assadi, Ashraf Mahdy Sharoba, 2020-04-20 Nanotechnology in the Beverage industry Fundamentals and Applications looks at how nanotechnology is being used to enhance water quality as well as how the properties of nanomaterials can be used to create different properties in both alcoholic and no alcoholic drinks and enhance the biosafety of both drinks and their packaging This is an important reference for materials scientists engineers food scientists and microbiologists who want to learn more about how nanotechnology is being used to enhance beverage products As active packaging technology nanotechnology can increase shelf life and maintain the quality of beverages In the field of water treatment nanomaterials offer new routes to address challenges Describes the major properties that make nanomaterials good agents for increasing the purification of water and other beverages Outlines major nanoencapsulation techniques for use in a variety of beverage types Discusses the major challenges of using nanomaterials in both beverages and beverage packaging Impacts of Demand Reduction on Water Utilities Daniel B. Bishop, Jack A. Weber, 1996 The primary purpose of this report is to provide information and to describe techniques that will help utilities and others determine the impacts of reduced demand on water utilities The remainder of the report is organized as follows Chapter 2 Methods and Materials describes the case study format and the methodology used to collect the data Chapter 3 General Concepts provides an overview of the significant economic and financial analysis concepts used to categorize and analyze the data Chapter 4 Profiles of Participating Agencies describes the participating agencies including general profiles of each Chapter 5 Operating Cost Impacts details the analytical framework and results for short term operating costs Chapter 6 Revenue Impacts illustrates how water utility revenues and rates are affected by reduced demand and potential reactions to rate adjustments Chapter 7 Long Term Capital Savings describes potential savings from capital deferrals or avoidance resulting from demand reduction Chapter 8 External Impacts provides an overview of the impacts that may occur outside of water utilities as the demand for water decreases Chapter 9 Conclusions looks at all the impacts and how the results of this study can be used by utilities **Preparing Urban Water Use Efficiency Plans** Lisa Maddaus, William Maddaus, Michelle Maddaus, 2013-11-15 Many communities are facing water scarcity in developing and developed countries alike There are numerous publications and on going research studies documenting the changes in our climate and potential for worsening shortages in our future Meeting future potable water demands as communities continue to grow will rely heavily on using our existing water resources more efficiently Preparing Urban Water Use Efficiency Plans provides detailed approaches to developing and implementing a water conservation plan This book covers the broad spectrum of conservation planning for urban communities including achieving

more efficiency from Residential domestic uses Commercial and governmental facilities use Industrial uses Pricing Water Loss Control Programs The steps in the Guide clearly outline and provide sample calculations to aid determining which water use efficiency activities are financially justifiable to undertake The end result is a plan that policy decision makers can adopt and fund and that water service provider staff can implement to help increase their community s water reliability It includes numerous case studies and a Microsoft Excel based software tool to allow planners to evaluate the business case for implementing various water conservation activities This book is an essential resource for professionals in water and wastewater resources particularly for planners and engineers It is also a useful guide for Post Graduate and Undergraduate students Author s Lisa Maddaus William Maddaus and Michelle Maddaus Maddaus Water Management Inc     *Selected Water Resources Abstracts* ,1990     **WRRRI News** ,1994     **Regional Water System Management** Enrique Cabrera,R. Cobacho,Jay Lund,2002-01-01 The spectacular industrial and economic development of the twentieth century was achieved at a considerable environmental cost The increasingly precarious position of water the most valuable of natural resources reflects this trend Today we have come to realise that concepts of sustainable development need to     *Handbook of Water Use and Conservation* Amy Vickers,2001 Provides estimated water savings benefits and costs for measures Includes tables charts photos eight appendices glossary and index     **Water Resources Journal** ,1994     **Capital Budgeting and Finance** A. John Vogt,2004 An up to date comprehensive and detailed how to manual for planning and financing successful capital projects written by a nationally known and award winning expert on capital budgeting A John Vogt Clearly explains capital budgeting approaches and methods especially for local jurisdictions under 200 000 in population Indispensable to managers assistant managers finance and budget officials planning directors public works administrators and elected officials for choosing wisely among various approaches using capital budgeting tools and analyzing trade offs during the process Gathers together and clearly presents the accepted and successful policies practices and procedures from across the country and describes in detail every step from selecting projects to planning how to pay for them to structuring and selling debt Provides an abundance of local government documents working papers charts checklists and examples from successful jurisdictions Approach and recommendations consistent with the National Advisory Council on State and Local Government Budgeting emphasizing goal setting and planning Tips on prioritizing projects winning political support for projects and selling debt successfully A book for every manager s bookshelf     **Setting Urban Water Rates for Efficiency and Conservation** David L. Mitchell,W. Michael Hanemann,M. Cubed,1994     **Water Conservation and Quantification of Water Demands in Subdivisions** Brian Wilson,1996     **Water Resource Economics** Ronald C. Griffin,2006 A comprehensive introduction to the economics of water management for engineers and natural scientists as well as economists with self contained treatment of all necessary economic concepts

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