



American Water Works
Association

Errata to
AWWA Manual M11
Steel Pipe—A Guide for Design and Installation, 4th ed.
(December 2013)

Chapter 1

1. On page 1, paragraph 2, line 6 under History, the metric conversion should read 15,000 psi (103.42 MPa).
2. On page 7, paragraph 2, lines 6 and 7 under Stress and Strain, “min” should read “µin.”
3. On page 8, paragraph 2, lines 2 and 4, respectively, the metric conversions should read 30,000,000 psi (207 TPa) and 30 psi (207 kPa).
4. On page 10, paragraph 1, line 2, the metric conversion should read 30 psi (207 kPa).
5. On page 10, paragraph 1, line 4, “5,000 min/in.” should read “5,000 µin./in.”
6. On page 10, paragraph 2, line 6, “5,000 min/in.” should read “5,000 µin./in.”
7. On page 10, paragraph 2, line 8, “300,000 min/in.” should read “300,000 µin./in.”
8. On page 11, paragraph 5, lines 6 and 10, under Analysis Based on Strain, “1,750 min/in.” should read “1,750 µin./in.”
9. On page 11, paragraph 7, line 2, under Analysis Based on Strain, “5,000 min/in.” should read “5,000 µin./in.”
10. On page 18, Eq 1-1 should read
$$\sigma_n = \sigma_2 (\cos^2 \alpha) + \sigma_1 (\sin^2 \alpha) \quad (1-1)$$

Chapter 6

11. On page 62, Table 6-1, column 1, Type of Soil, replace “Coarse-grained soils with little or no fines (SP, SM, GP, GW)” with “Coarse-grained soils with little or no fines (SP, SW, GP, GW).”
12. On page 67, line 5, replace $(P = 0.7(4)(28,152) = 7,883 \text{ kg/m}^2)$ with $(P = 0.07(4)(28,152) = 7,883 \text{ kg/m}^2)$.

Awwa Rate Study Manual

Lingsheng Yao



Awwa Rate Study Manual:

Developing Rates for Small Systems American Water Works Association, 2004 The brand new manual provides step by step guidance to determine revenue requirements analyze rates develop a financial plan and design a better rate structure even with limited resources and data Written for small water systems defined as serving a population of up to 10 000 it focuses on the unique attributes of small systems as related to financial planning and rate design with the understanding that most data is contained in the current customer billing system and merely needs to be massaged With details plus a sample case study it helps develop a rate structure that emphasizes simplicity and ease of billing while at the same time recognizes cost recovery and equitability Also covered are communications with the public which is integral to a successful rate restructuring regulatory approval system development funding and rate phase in *Water Rates, Fees, and the Legal Environment* Cornelis Waltherus Corssmit, 2010 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

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Table of Contents Awwa Rate Study Manual

1. Understanding the eBook Awwa Rate Study Manual
 - The Rise of Digital Reading Awwa Rate Study Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Awwa Rate Study Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Awwa Rate Study Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Awwa Rate Study Manual
 - Personalized Recommendations
 - Awwa Rate Study Manual User Reviews and Ratings
 - Awwa Rate Study Manual and Bestseller Lists
5. Accessing Awwa Rate Study Manual Free and Paid eBooks
 - Awwa Rate Study Manual Public Domain eBooks
 - Awwa Rate Study Manual eBook Subscription Services
 - Awwa Rate Study Manual Budget-Friendly Options
6. Navigating Awwa Rate Study Manual eBook Formats

- ePub, PDF, MOBI, and More
- Awwa Rate Study Manual Compatibility with Devices
- Awwa Rate Study Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Awwa Rate Study Manual
 - Highlighting and Note-Taking Awwa Rate Study Manual
 - Interactive Elements Awwa Rate Study Manual
- 8. Staying Engaged with Awwa Rate Study Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Awwa Rate Study Manual
- 9. Balancing eBooks and Physical Books Awwa Rate Study Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Awwa Rate Study Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Awwa Rate Study Manual
 - Setting Reading Goals Awwa Rate Study Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Awwa Rate Study Manual
 - Fact-Checking eBook Content of Awwa Rate Study Manual
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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with a pro amino acid c each amino acid is encoded by exactly one codon d only three codons have no matching anticodons e
the genetic code table lists anticodon sequences