



# **The Drinking Water Handbook**

## **Second Edition**

**Frank R. Spellman  
Joanne E. Drinan**



**CRC Press**  
Taylor & Francis Group

# The Drinking Water Handbook Second Edition

**United States. Environmental  
Protection Agency**

## **The Drinking Water Handbook Second Edition:**

**The Drinking Water Handbook** Frank R. Spellman, Joanne Drinan, Joanne E. Drinan, 1999-12-22 The Drinking Water Handbook is a systematic explanation of the many processes employed to make water safe to drink. It clarifies the laws that set the standards for quality and investigates the physical chemical and microbiological parameters that must be modified to produce potable and good tasting water. Careful attention is paid to present and emerging technologies that result in high quality drinking water purification, filtration, disinfection, distribution, and more. The book discusses the relation of water reuse to the hydrologic cycle and explains what is being done to mitigate growing concerns about disinfection by products. [The Drinking Water Handbook, Second Edition](#) Frank R. Spellman, Joanne E. Drinan, 2012-05-22 When you open the tap to fill your glass with drinking water, you expect the water to be of good quality. But is the water from your tap really safe? The second edition of an industry wide bestseller, *The Drinking Water Handbook*, explains the many processes employed to make water safe to drink. Starting at the source, it evaluates the quality control of drinking water through treatment and distribution to the tap and its use and reuse by the consumer. What's in Your Glass of Water? Engaging and accessible, the handbook covers important concepts and regulations and identifies current problems with the water supply. In addition to the traditional physical chemical and microbiological parameters that affect water quality, it discusses trihalomethanes, Cryptosporidium, viruses, carcinogens, pharmaceuticals, and personal care products (PPCPs) and other pollutants. Solutions for Safer Drinking Water. The book also addresses the challenges faced by practitioners striving to provide the best drinking water quality to the consumer. It outlines techniques and technologies for monitoring and water treatment, from preliminary screening to filtration and disinfection, as well as advanced processes for specialized water problems. Recognizing the importance of protecting water infrastructure, the authors include a comprehensive chapter on security requirements for waterworks. This user friendly handbook puts technical information about drinking water in the hands of the general public, sanitary and public works engineers, public health administrators, water treatment operators, and students. Thoroughly updated to reflect current science and technologies, it takes a close look at what can be found in many tap water supplies and the measures taken to ensure the health and well being of consumers. What's New in this Edition? Updates to every chapter reflecting advances in the field. Expanded material on sick water related to PPCPs. Discussion of the latest treatment technologies. Coverage of individual contaminants. Current regulations related to drinking water. *Handbook of Drinking Water Quality* John DeZuane, 1997-01-31 Well written and informative, *Richard Lewis* Lewis Information Systems. This book combines information which could possibly have required as many as four reference sources in the past. Steven C. Messer. In its first edition, John DeZuane's popular reference drew wide praise for being an insightful theoretical resource. Now in the second edition of *Handbook of Drinking Water Quality*, DeZuane builds on that legacy with the same practical and conceptual emphases, adding a wealth of new information that provides immediate access to the data and guidelines needed to

understand the impact of drinking water parameters on public health help build and operate water supply facilities conduct reliable drinking water sampling monitoring and analytical evaluation implement potability standards from the source to the treatment facility to storage to the tap write new standards and expand modify existing standards as quickly as needed Preventing contamination of drinking water requires a multidisciplinary perspective one that incorporates elements of bacteriology chemistry physics engineering public health preventive medicine and control and evaluation management In a concise easy to use format *Handbook of Drinking Water Quality Second Edition* describes Data and guidelines from the World Health Organization and the European Community used to develop drinking water standards U S drinking water standards their physical chemical microbiological and radionuclide parameters and monitoring requirements EPA approved analytical methods and the most effective treatment technologies for each contaminant Critical concepts of water quality control as applied in water treatment in conventional or chemical treatment plants Disinfection and fluoridation requirements Common problems with water distribution systems including dead ends sediments bacterial growth insufficient pressure and main breaks To keep pace with recent breakthroughs in scientific research water analysis and program implementation and monitoring this Second Edition features expanded and updated information on All drinking water regulations issued since the previous edition in 1990 Current drinking water standards adopted by the European Community Lead poisoning radon and Cryptosporidium Compulsory water treatment for lead and copper Coliform Rule compliance disinfection and filtration Trihalomethane reduction with ozonation As a quick reference handbook and technical manual *Handbook of Drinking Water Quality Second Edition* is an essential volume for engineers water supply and treatment personnel environmental scientists public health officials or anyone responsible for assuring the safety of drinking water *Using the Engineering Literature, Second Edition* Bonnie A. Osif, 2011-08-09 With the encroachment of the Internet into nearly all aspects of work and life it seems as though information is everywhere However there is information and then there is correct appropriate and timely information While we might love being able to turn to Wikipedia for encyclopedia like information or search Google for the thousands of links on a topic engineers need the best information information that is evaluated up to date and complete Accurate vetted information is necessary when building new skyscrapers or developing new prosthetics for returning military veterans While the award winning first edition of *Using the Engineering Literature* used a roadmap analogy we now need a three dimensional analysis reflecting the complex and dynamic nature of research in the information age Using the *Engineering Literature Second Edition* provides a guide to the wide range of resources available in all fields of engineering This second edition has been thoroughly revised and features new sections on nanotechnology as well as green engineering The information age has greatly impacted the way engineers find information Engineers have an effect directly and indirectly on almost all aspects of our lives and it is vital that they find the right information at the right time to create better products and processes Comprehensive and up to date with expert chapter authors this book fills a gap in the literature providing

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