

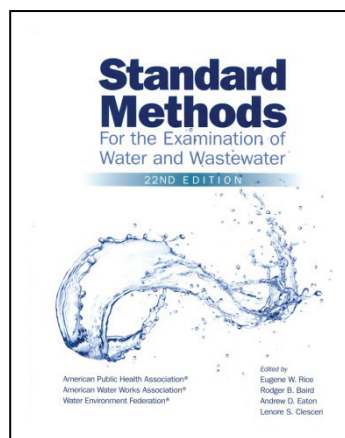
in 1884) basic discoveries absolutely necessary in order to explain and understand the action mechanism of hydrotherapy and the fundamentals of Crenotherapy.

The contents of the book are divided in twelve chapters: Introduction, Two Hydrologists: Antoine Lavoisier and Svante Arrhenius, World History, Spanish History, Science in the World, Science in Spain, Chemistry in the World, Chemistry in Spain, Analytical Chemistry in the World, Analytical Chemistry in Spain, Chemical Analysis of Mineral Waters in the World, Chemical Analysis of Mineral Waters in Spain; Bibliography and Name Index.

Written with scientific rigor, it contains tables with important data that give us outstanding information about the different discoveries, water analysis and resorts in a user-friendly manner. The illustrations of portraits of the main characters involved in this history have been painted in oil paintings by the young painter from Aragon, Manuel Ramos Armijo who as the author puts it: "has captured perfectly the image have of these scientists".

To read this entertaining and interesting review provides a fascinating journey through history, science and chemistry in the world and in Spain, introducing us to the intricacies of analytical chemistry and specifically into the chemical analysis of mineral medicinal waters in Spain and making this book very recommendable for anyone interested in this fascinating and curious element without which life would not be possible as we know it, water.

Illuminada Corvillo Martín



APHA, AWWA, WEF. Standard Methods for examination of water and wastewater. 22nd ed. Washington: American Public Health Association; 2012, 1360 pp. ISBN 978-087553-013-0  
<http://www.standardmethods.org/>

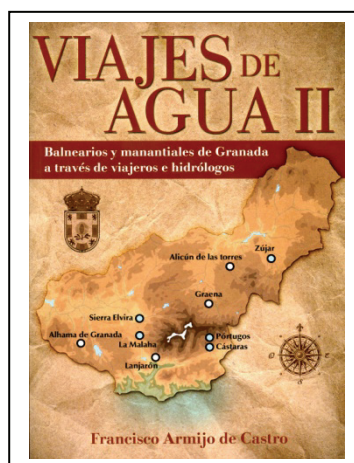
The first edition of *Standard Methods* was published in 1905. Since then it has been considered to be the best available guidance of water analysts, which covers

all aspects of water and wastewater analysis techniques and categorizes the analytical methods based on the constituent and not on the type of water.

Since the Twenty-First Edition, all existing, revised and new methods are available online ([www.standardmethods.org](http://www.standardmethods.org)). The recently published Twenty-Second Edition contains 87 EPA-approved methods, 233 revised methods and 14 new methods described in ten chapters divided in sections. The procedures described in this edition are intended for use in analyzing a wide range of waters and in certain cases are intended for use with sludges and sediments, all of them with the widest possible application and most of them have been endorsed by regulators. The 22nd edition contains methods for the analysis of dissolved solids, metals, free and total chlorine, odor, taste and flavor profile analysis, disinfection by-products, radionuclides, total organic carbon and total and fecal coliform. All methods are dated to clearly identify changes between editions.

There are more than 80 sections with significant technical/editorial changes consisting of references to the revised quality assurance/quality control (QA/QC) section. These changes are a direct and a necessary result of the mandate to keep up to regulatory requirements and also a policy intended to clarify the QC steps considered to be an integral part of each test method. To improve consistency and ensure reliable results, laboratories that desire to produce analytical results of known quality, are encouraged to phase-in and use the QA/QC procedures specified in the most recent, approved editions of that compendium.

Icíar Vázquez Carranzo



Armijo de Castro F. Water Journeys II. Granada's Spas and Springs through Travellers' and Hydrologists' eyes [Viajes de Agua II. Balnearios y manantiales de Granada a través de viajeros e hidrólogos]. Madrid: Solprint; 2012, 333 pp. ISBN 978-84-615-9269-2