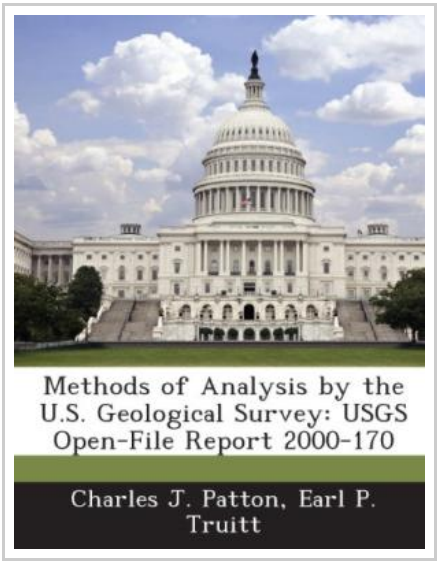

Methods of Analysis by the U.S. Geological Survey: Usgs Open-File Report 2000-170

By Charles J Patton, Earl P Truitt

Bibliogov, United States, 2013. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.The National Water Quality Laboratory (NWQL) determined ammonium plus organic nitrogen (Kjeldahl nitrogen) by using semiautomated, block digester methods for filtered and whole-water samples from 1986 until October 1, 1991. During that time, phosphorus was determined by a persulfate digestion method. In 1991, projected increases in demand for both tests by the U.S. Geological Survey s National Water-Quality Assessment Program led the NWQL to develop and validate methods for determining both analytes in a common digest. This report describes a rapid and accurate method to determine Kjeldahl nitrogen. The batch, high-temperature (block digester), Hg (II)-catalyzed digestion step used in the new methods I-2515-91/4515-91 is similar to U.S. Geological Survey methods I-2552-85/4552-85 and U.S. Environmental Protection Agency method 351.2 except that sample and reagent volumes are halved. Prepared digests are desolvated at 220 degrees Celsius (oC) and digested at 370oC in separate block digesters set at these temperatures, rather than in a single, temperatureprogrammed block digester. This approach permits 40 calibrants, reference materials, and samples to be digested and resolvated in about an hour. Ammonium ions originally present in...

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