



Challenges in Green Analytical Chemistry: The Challenge

By -

Royal Society of Chemistry. Hardcover. Book Condition: New. Hardcover. 330 pages. Dimensions: 9.3in. x 6.0in. x 1.1in. Concerns about environmental pollution, global climate change and hazards to human health have increased dramatically. This has led to a call for change in chemical processes including those that are part of chemical analysis. The development of analytical chemistry continues and every new discovery in chemistry, physics, molecular biology, and materials science brings new opportunities and challenges. Yet, contemporary analytical chemistry does not consume resources optimally. Indeed, the usage of toxic chemical compounds is at the highest rate ever. All this makes the emerging field of green chemistry a hot topic in industrial, governmental laboratories as well as in academia. This book starts by introducing the twelve principles of green chemistry. It then goes on to discuss how the principles of green chemistry can be used to assess the greenness of analytical methodologies. The green profile proposed by the ACS Green Chemistry Institute is also presented. A chapter on Greening sample preparation describes approaches to minimizing toxic solvent use, using non-toxic alternatives, and saving energy. The chapter on instrumental methods describes existing analytical approaches that are inherently green and making non-green methods greener. The...



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