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Green Chemistry: Theory and Practice

By Paul T. Anastas, John C. Warner

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This book provides the first introductory treatment of the design, development, and evaluation processes central to Green Chemistry. As a comprehensive textbook, it takes a broad view of the subject and integrates a wide variety of approaches. Topics include alternative feedstocks, environmentally benign syntheses, the design of safer chemical products, new reaction conditions, alternative solvents and catalyst development, and the use of biosynthesis and biomimetic principles. It introduces new evaluation processes that encompass the complete health and environmental impact of a synthesis, from the choice of starting materials to the final product. Throughout, the text provides specific examples which compare the new methods with classical ones.

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Editorial Review

Review

"What is green chemistry? In *Green Chemistry: Theory and Practice*, Paul T. Anastas and John C. Warner provide a concise and comprehensive answer: 'Green chemistry is the utilization of a set of principles that reduces or eliminates the use or generation of hazardous substances in the design, manufacture and application of chemical products.' . . . Measure by measure, [Anastas] and Warner fill this abstract and fairly broad definition with life. Their short book provides a framework for the pursuit of environmentally compatible chemistry. This introductory text is intended to provide a basis for teaching and includes a collection of exercises for the topics of each chapter. . . . [This book] should be consulted by anyone who wants to know about environmentally benign chemistry and, especially, by scientists who contemplate adopting its principles in their own research or teaching efforts."--*Science*

"Historically, as Paul Anastas and John Warner point out in *Green Chemistry: Theory and Practice*, synthetic chemists have not been particularly environmentally conscious, since their involvement was at the beginning of the chemical synthetic chain whereas problems were mostly encountered at its end. The solution is the replacement of these technologies with cleaner catalytic alternatives. The emphasis is on eliminating waste at source--primary pollution prevention--rather than finding incremental end-of-pipe solutions. This has now become known as green chemistry, and is defined by Anastas and Warner as: 'The utilization of a set of principles that reduces or eliminates the use or generation of hazardous substances in the design, manufacture and application of chemical products'. The tools of green chemistry are alternative feedstocks, solvents and reagents, and catalytic versus stoichiometric processes."--*Nature*

"Anastas from the US Environmental Protection Agency and Warner (chemistry, U. of Massachusetts-Boston) introduce the design, development, and evaluation processes of a currently active area of research that concentrates on the handling and use of chemicals to ensure efficiency but also human and environmental compatibility. They take a wide view and integrate such topics as alternative feedstocks, environmentally benign synthetic methodologies, designing safer chemical products, new reaction conditions, alternative solvents and catalyst development, and the use of biosynthesis and biomimetic principles. They also describe a new evaluation process that encompasses the health and environmental impact of a synthetic pathway from the choice to starting materials to the target molecule. They write for graduate and professional chemists, and include exercises for classroom or individual study."--*SciTech Book News*

About the Author

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