



Cleaning with Solvents: Science and Technology

John Durkee Ph.D. P.E.

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High-precision cleaning is required across a wide range of sectors, including aerospace, defense, medical device manufacturing, pharmaceutical processing, semiconductor/electronics, etc.

Cleaning parts and surfaces with solvents is simple, effective and low-cost. Although health and safety and environmental concerns come into play with the use of solvents, this book explores how safe and compliant solvent-based cleaning techniques can be implemented. A key to this is the selection of the right solvent. The author also examines a range of newer "green" solvent cleaning options.

This book supplies scientific fundamentals and practical guidance supported by real-world examples. Durkee explains the three principal methods of solvent selection: matching of solubility parameters, reduction of potential for smog formation, and matching of physical properties. He also provides guidance on the safe use of aerosols, wipe-cleaning techniques, solvent stabilization, economics, and many other topics.

A compendium of blend rules is included, covering the physical, chemical, and environmental properties of solvents.

- Three methods explained in detail for substitution of suitable solvents for those unsuitable for any reason: toxic solvents don't have to be tolerated; this volume explains how to do better
- Enables users to make informed judgments about their selection of cleaning solvents for specific applications, including solvent replacement decisions
- Explains how to plan and implement solvent cleaning systems that are effective, economical and compliant with regulations

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