

Handbook for Critical Cleaning: Applications, Processes, and Controls, Second Edition

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Applications, Processes, and Controls is the second volume in the ***Handbook for Critical Cleaning, Second Edition.***

Should you clean your product during manufacturing? If so, when and how? Cleaning is essential for proper performance, optimal quality, and increased sales. Inadequate cleaning of product elements can lead to catastrophic failure of the entire system and serious hazards to individuals and the general public.

Gain a competitive edge with proven cleaning and contamination-control strategies

A decade after the bestselling original, the **Handbook for Critical Cleaning, Second Edition** helps manufacturers meet today's challenges, providing practical information and perspective about cleaning chemistries, equipment, processes, and applications. With 90% new or revised chapters plus supplementary online material, the handbook has grown into two comprehensive volumes: ***Cleaning Agents and Systems***, and *Applications, Processes, and Controls.*

Helping manufacturers become more efficient and productive, these books:

- Show how to increase profitability and meet both existing and expected product demand
- Clarify the sea of print and Internet information about cleaning chemistries and techniques
- Address challenges of performance, miniaturization, and cost, as well as regulatory and supply chain pressures
- Offer clearly written guidance from the viewpoints of more than 70 leading industry contributors in technical, management, academic, and regulatory disciplines

Overview chapters by the editors, industry icons Barbara and Ed Kanegsberg, meld the different viewpoints and compile and critique the options. The result is a complete, cohesive, balanced perspective that helps manufacturers better select, implement, and maintain a quality, value-added cleaning process.

The second volume, ***Handbook for Critical Cleaning: Applications, Processes, and Controls****, addresses how to implement, validate, monitor, and maintain a critical cleaning process. Topics include cleanrooms, materials compatibility, worker safety, sustainability, and environmental constraints. The book shows readers how to draw from diverse disciplines—including aerospace, art conservation, electronics, food, life sciences, military, optics, and semiconductors—to achieve superior productivity.*

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Handbook for Critical Cleaning: Applications, Processes, and Controls, Second Edition From Brand: CRC Press Bibliography

- Sales Rank: #3445314 in Books
- Brand: Brand: CRC Press
- Published on: 2011-04-12
- Original language: English
- Number of items: 1
- Dimensions: 10.10" h x 1.30" w x 7.10" l, 2.63 pounds
- Binding: Hardcover
- 574 pages

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Editorial Review

Review
"... an excellent resource for the manufacturer and for those researchers and consultants like myself who support the manufacturers. ... This Handbook's strongest suit is the presentation of the Kanegsbergs' philosophy of process development and improvement. ... they have produced a very useful resource in these two handbooks." -Darren Williams, Controlled Environments Magazine, Mar 1, 2012 "Mazel tov on your new edition!!! I really didn't know what to expect from a 'cleaning' book. So surprised-it is an incredible treasure trove of information!! It is really interesting, beautifully written and honestly I can't stop reading it. Thankfully it is two volumes so Scott and I don't have to fight over it. Really, it is the most fascinating technical book I've ever seen so it should fly off the shelves-or the Internet." -Debra Kimless-Garber MD, Scott Garber MD, DIFLUOREX "... a tour de force, a work written by experts who have worked at the interface between science and industry and who write from that basis, not from an ivory tower. The price of these two formidable volumes is not insignificant. But set against the cost of defective production, just for one hour's downtime or components having to be re-worked or completely rejected, it is an investment that will pay for itself many times over. On that basis, one is more than happy to strongly recommend it." -Anselm Kuhn, Galvanotechnik, July 2011 "There are a number of excellent chapters specific to electronics applications; these include materials, equipment, processes and failure modes. Cleaning printed board assemblies for selected applications is on the increase where no clean has quite rightly dominated the market place for many years since the demise of CFC's. There are many reasons why cleaning is a hot topic again and a great time for the release of an encyclopaedia on cleaning." -Bob Willis, Global SMT & Packaging Magazine, July 2011 "Any firm serious about managing its cleaning operations should have this book available to their staff responsible for that operation. It's a strong contribution to the technical literature supporting industrial cleaning because of the diversity of its coverage and strengths of many chapters, ... Every chapter is replete with references-something not provided with a Google (or other search engine) Internet search." -John Durkee, "Metal Finishing Magazine," August 2011 "If you want to learn about the most recent advances of engineering materials (superalloys, thin films, solid lubricants, polymeric composites, etc.), either from synthesis perspective or from performance perspective-here is a very comprehensive review. This book brings the readers' knowledge to the frontier of aerospace engineering materials, its timing is just right for a summary of this blooming field. This book collects the very essential and representative topics. The writing is precise, the presentation is pure pedagogy, and the impression is light and refreshing. It is a very handy book to keep on the book shelf for frequent reference." -Hanshen Zhang, Ph.D., Research Fellow, Stanford University, California, USA

About the Author
Barbara Kanegsberg is president of BFK Solutions LLC, Pacific Palisades, California, an independent consulting company established in 1994. BFK Solutions is the industry leader in critical cleaning. As a recognized consultant in the areas of critical cleaning, contamination control, surface quality, and process validation, she helps companies optimize manufacturing cleaning processes, improve yield, resolve regulatory issues, and maintain trouble-free production. She has participated in projects that include aerospace/military equipment, electronics assembly, medical devices, engineered coatings, metals, pump repair, and optical and nanotechnological devices. She has also participated in a number of product development- and intellectual property-related projects for manufacturers of cleaning chemicals and industrial equipment. Barbara is a recipient of the U.S. EPA Stratospheric Ozone Protection Award for her achievements in implementing effective, environment-friendly manufacturing processes. She has numerous publications to her credit in the areas of surface preparation, contamination control, critical cleaning, method

validation, analytical techniques, and regulatory issues. Ed Kanegsberg is the vice president of BFK Solutions, Pacific Palisades, California. He is also a chemical physicist and engineer who troubleshoots and solves manufacturing production problems. Ed is a recognized advisor and consultant in the areas of industrial cleaning process design and process performance. He uses his four decades of practical experience along with his background in physics and engineering to help companies solve production problems and optimize their cleaning and contamination control processes.

Users Review

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Marcia Eberhart:

The reason why? Because this Handbook for Critical Cleaning: Applications, Processes, and Controls, Second Edition is an unordinary book that the inside of the publication waiting for you to snap the item but latter it will zap you with the secret that inside. Reading this book beside it was fantastic author who have write the book in such wonderful way makes the content inside easier to understand, entertaining means but still convey the meaning fully. So , it is good for you because of not hesitating having this nowadays or you going to regret it. This amazing book will give you a lot of rewards than the other book include such as help improving your proficiency and your critical thinking way. So , still want to postpone having that book? If I were you I will go to the book store hurriedly.

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