

Book Review

Coolant Filtration, 2nd Edition — Additional Technologies

James J. Joseph, Joseph Marketing, Inc., Williamsburg, Va., 2001, Soft cover, 76 Illustrations, 223 pages.

Reviewer: Dr. Robert M. Gresham
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I must admit, I haven't read the first edition of this book to make comparisons, but I look at this second edition as a new, fresh entity. This paperback book is manageable at 223 pages with 76 illustrations. The newer version updates the previous edition by including newer equipment and techniques developed in the last 16 years.

The text covers coolant cleaning and handling for metalworking operations where coolants are used as part of the process. This book also provides the latest thinking on specific metalworking applications with some comprehensive guidelines. One of the strengths of this book is that it deals with the total concept of coolant applications and includes the needs for effective use of the various devices used in the industry.

The author has many years of practical experience in the field of coolant maintenance and reclamation, and the book includes many easily understood (even for this novice) diagrams, tables and graphs drawn from his considerable depth. The descriptions of theory, practical techniques, equipment and system design and, most important, the logic behind them is quite good. Again, even people who have no real background in metalworking fluid management can easily understand the information.

It may be important to note that the term, coolant filtration, is a general term covering the entire process of collecting, cleaning, holding and delivering coolants so they can be recirculated, recycled or disposed of safely. The book is consistent with the philosophy shift from managing the cost/liability balance to today's philosophy that clean coolant, regardless of the size of the facility, is an asset to better productivity. In this context, the philosophy is global in nature, taking into account all aspects of the operation to develop a system that balances productivity, tool life, quality, employee health/safety, cost liability and the environment.

This book strives (and succeeds) at being a practical guide to managing coolant health. One can envision this book on the shop floor, foreman's office or the office of the individual responsible for coolant management in the plant. Also, this book serves as a handy reference to help individuals prepare for STLE's new Certified Metalworking Fluids SpecialistSM exam.

If there's one weakness of this book, it's that it doesn't include extensive references for a more in-depth study and, while the author acknowledges that discussion of bacteria and fungus goes beyond the scope of the book, more coverage would be helpful. ■

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