



Brewing Materials and Processes: A Practical Approach to Beer Excellence

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Brewing Materials and Processes: A Practical Approach to Beer Excellence

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Brewing Materials and Processes: A Practical Approach to Beer Excellence presents a novel methodology on what goes into beer and the results of the process. From adjuncts to yeast, and from foam to chemometrics, this unique approach puts quality at its foundation, revealing how the right combination builds to a great beer. Based on years of both academic and industrial research and application, the book includes contributions from around the world with a shared focus on quality assurance and control.

Each chapter addresses the measurement tools and approaches available, along with the nature and significance of the specifications applied. In its entirety, the book represents a comprehensive description on how to address quality performance in brewing operations.

Understanding how the grain, hops, water, gases, worts, and other contributing elements establish the framework for quality is the core of ultimate quality achievement. The book is ideal for users in corporate R&D, researchers, students, highly-skilled small-scale brewers, and those seeking an understanding on how the parts impact the whole in beer production, providing them with an ideal companion to complement *Beer: A Quality Perspective*.

- Focuses on the practical approach to delivering beer quality, beginning with raw ingredients
- Includes an analytical perspective for each element, giving the reader insights into its role and impact on overall quality
- Provides a hands-on reference work for daily use
- Presents an essential volume in brewing education that addresses areas only lightly covered elsewhere

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- Rank: #993962 in eBooks
- Published on: 2016-06-01
- Released on: 2016-06-01
- Format: Kindle eBook

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Editorial Review

About the Author

Charles W. Bamforth, PhD, DSc, FIBD, FIBiol, FIAFoST is the Anheuser-Busch Endowed Professor of Malting and Brewing Sciences at the University of California, Davis. He has held positions as director of research for Brewing Research International and as research and quality assurance manager for Bass Breweries in the UK. He is the author of numerous books and papers as well as being the editor-in-chief of the Journal of the American Society of Brewing Chemists.

Dr. Bamforth specializes in the science of malting and brewing. His current research program focuses primarily on the wholesomeness of beer, including studies on the psychophysics of beer perception, on polyphenols and on the residues from non-starchy polysaccharide digestion that constitute soluble fiber and potential prebiotics in beer. Research in the laboratory also embraces the enzymology of the brewing process, foam stability, preventing oxidation in wort and beer and alternative paradigms for beer production. He has received the Award of Distinction, American Society of Brewing Chemists, 2011, and the Cambridge Prize, Institute of Brewing, 1984

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