



# **Espresso Extraction: Measurement and Mastery**

**Scott Rao**

# Espresso Extraction Measurement And Mastery

**Mauricio Vaca Guerra**



## **Espresso Extraction Measurement And Mastery:**

*The Craft and Science of Coffee* Britta Folmer, 2016-12-16 *The Craft and Science of Coffee* follows the coffee plant from its origins in East Africa to its current role as a global product that influences millions of lives through sustainable development, economics, and consumer desire. For most, coffee is a beloved beverage. However, for some, it is also an object of scientific study, and for others, it is approached as a craft, both building on skills and experience. By combining the research and insights of the scientific community and the expertise of the craftspeople, this unique book brings readers into a sustained and inclusive conversation where academic and industrial thought leaders, coffee farmers, and baristas are quoted, each informing and enriching each other. This unusual approach guides the reader on a journey from coffee farmer to roaster, market analyst to barista, in a style that is both rigorous and experience-based, universally relevant and personally engaging. From farming processes to consumer benefits, the reader is given a deeper appreciation and understanding of coffee's complexity and is invited to form their own educated opinions on the ever-changing situation, including potential routes to further shape the coffee future in a responsible manner. Presents a novel synthesis of coffee research and real-world experience that aids understanding, appreciation, and potential action. Includes contributions from a multitude of experts who address complex subjects with a conversational approach. Provides expert discourse on the coffee value chain from agricultural and production practices, sustainability, post-harvest processing, and quality aspects to the economic analysis of the consumer value proposition. Engages with the key challenges of future coffee production and potential solutions.

*Enhancing experimentation and modeling of the impact of coffee particle size on the dynamic process of espresso extraction* Mauricio Vaca Guerra, 2025-07-16 Espresso extraction is a complex process governed by interconnected physical phenomena where coffee particle size plays a critical role. This dissertation systematically investigates how variations in particle size affect the hydrodynamics and mass transfer processes within the packed coffee bed using controlled experiments and mechanistic modeling. Key findings reveal that particle size distribution influences bed compression, permeability, and extraction kinetics of key marker components. A series of mathematical models were developed and validated to describe diffusion-convection interactions, offering predictive insights for optimizing espresso quality and enabling consistent performance in fully automated coffee machines.

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