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Sommario/riassunto

An essential resource for the practical implementation of new technologies in the laboratory value chain In Laboratory of the Future: Building the Digital Transformation , distinguished chemist Dr. Thorsten Teutenberg delivers an up-to-date discussion of digitization and automation, smart workflows, flexible laboratory automation, miniaturization and sustainability in the contemporary laboratory environment. With a strong focus on the practical implementation of the latest technologies and workflows, the book's intention is to advocate for the digital transformation. Each chapter concludes with various insights from renowned experts in the field, encouraging readers to think critically and deepen their understanding of the presented concepts. These perspectives offer alternative interpretations, highlight the complexity of real-world implementation, and stimulate informed debate. Engaging with diverse perspectives helps readers assess the strengths and limitations of various approaches, fostering a balanced and comprehensive grasp of laboratory digitalization. Laboratory of the Future: Building the Digital Transformation is a valuable resource for laboratory managers, scientists, digital transformation leaders, and decision-makers involved in research and development environments seeking to optimize workflows, enhance data integrity, and implement automation technologies. It offers insights into the future of lab technologies by presenting the challenges and strategies for digitizing laboratory operations and incorporating expert perspectives and practical case studies.
