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Handbook for Process Safety in Laboratories and Pilot Plants Effectively manage physical and chemical risks in your laboratory or pilot plant In Handbook for Process Safety in Laboratories and Pilot Plants: A Risk-based Approach, the Center for Chemical Process Safety delivers a comprehensive and authoritative presentation of process safety procedures and methods for use in laboratories and pilot plants (LAPPs). Of the four broad hazard categories -- chemical, physical, biological, and ionizing radiation -- this book focuses on the two most common: chemical and physical hazards. It addresses the storage and

handling of the hazardous materials associated with activities commonly performed in LAPPs and presents many of the physical and chemical analytical techniques used to verify and validate the efficacy of safety management systems. This book will present tools and techniques for effectively managing the risks in any laboratory or pilot plant using engineered and administrative controls, as well as the CCPS Risk Based Process Safety (RBPS) Management Systems. Readers will also find: A thorough introduction to process safety Comprehensive explorations of understanding hazards and risks, as well as managing risk with engineered controls, administrative controls, and RBPS Management Systems Practical discussions of how to learn from the experiences of your own LAPP and others Detailed case reports and examples, as well as practical tools, control banding strategies, and glass equipment design Perfect for any LAPP staff member working with or managing hazardous materials, Handbook for Process Safety in Laboratories and Pilot Plants: A Risk-based Approach will also benefit LAPP engineering and scientific professionals, LAPP technical support staff, and LAPP managers. The Center for Chemical Process Safety is a world leader in developing and distributing information on process safety management and technology. Since 1985, CCPS has published over 100 books in its process safety guidelines and concept series, 33 training modules as part of its Safety in Chemical Engineering Education series, and over 220 online offerings.