Handbook of Chemical Regulations: Benchmarking, Implementation, and Engineering Concepts

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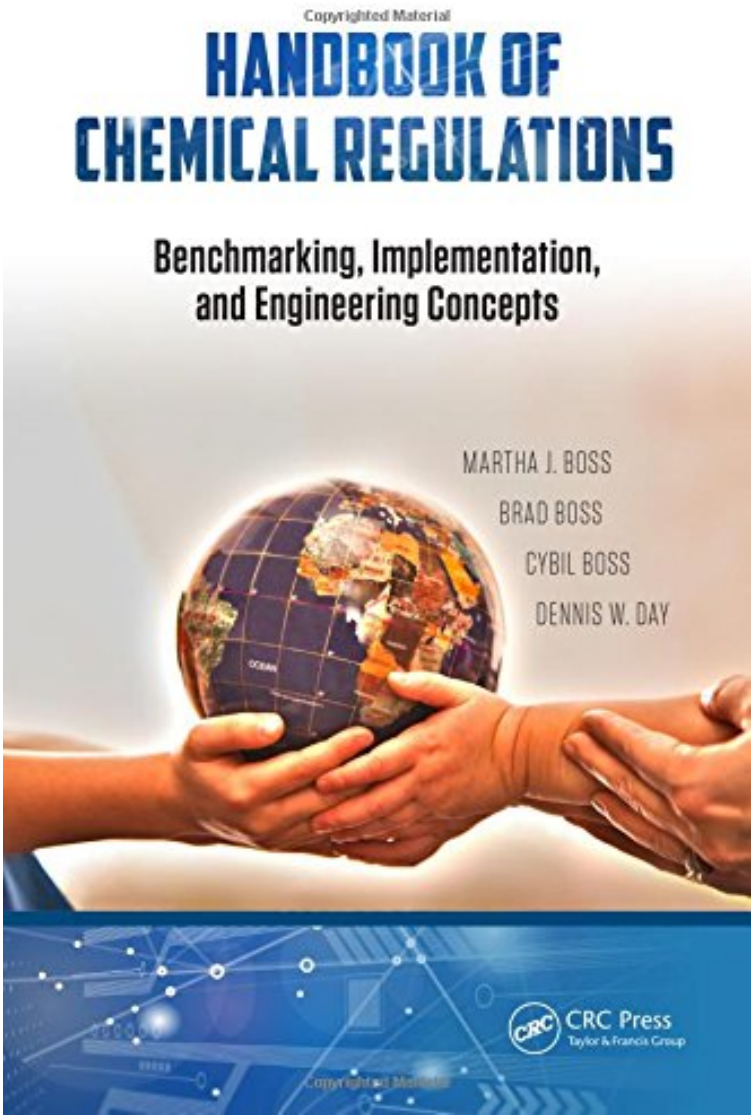

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The first book of its kind, Handbook of Chemical Regulations: Benchmarking, Implementation, and Engineering Concepts introduces the concept of global harmonization and interlinks between regulations and examines the reasons behind major requirements for chemical manufacture, article production, and distribution, importation, and usage. A compendium of environmental, health and safety, and engineering concepts for global harmonization, the book provides a road map between regulations from the European Union, the United States, and other countries who adopt similar regulations. As with any road map, not every feature along the road is mapped; however, what is shown are the markers leading to a point where more effective stewardship of your industrial development and chemical usage base is possible. The book discusses the Eurpoean Unions Regulation (EC) No 1907/ 2006 - Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), the Eurpean Union s Regulation (EC) No 1272/2008 for classification, labelling and packaging of substances and mixtures, and the United States Occupational Safety and Health Administration (OSHA) perspectives for Safety Data Sheet (SDS) development and product labeling. In addition, the United States Toxic Substance Control Act (TSCA) and Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) are presented as regards TSCA new substance review critiera and FIFRA required labeling. This compendium of information aids in the successful integration and implementation of the regulatory requirementsan integration that should lead to more efficient and effective business decisions. Rather than reacting to one regulation at a time, making policy decisions that reflect the underlying conceptual framework of GHS will lead to safer products and safer industrial production sites. Based on a framework for regulatory standards, this easy-to-read guide helps you understand the scientific concepts that are inherent in chemical usage and their interplay globally.