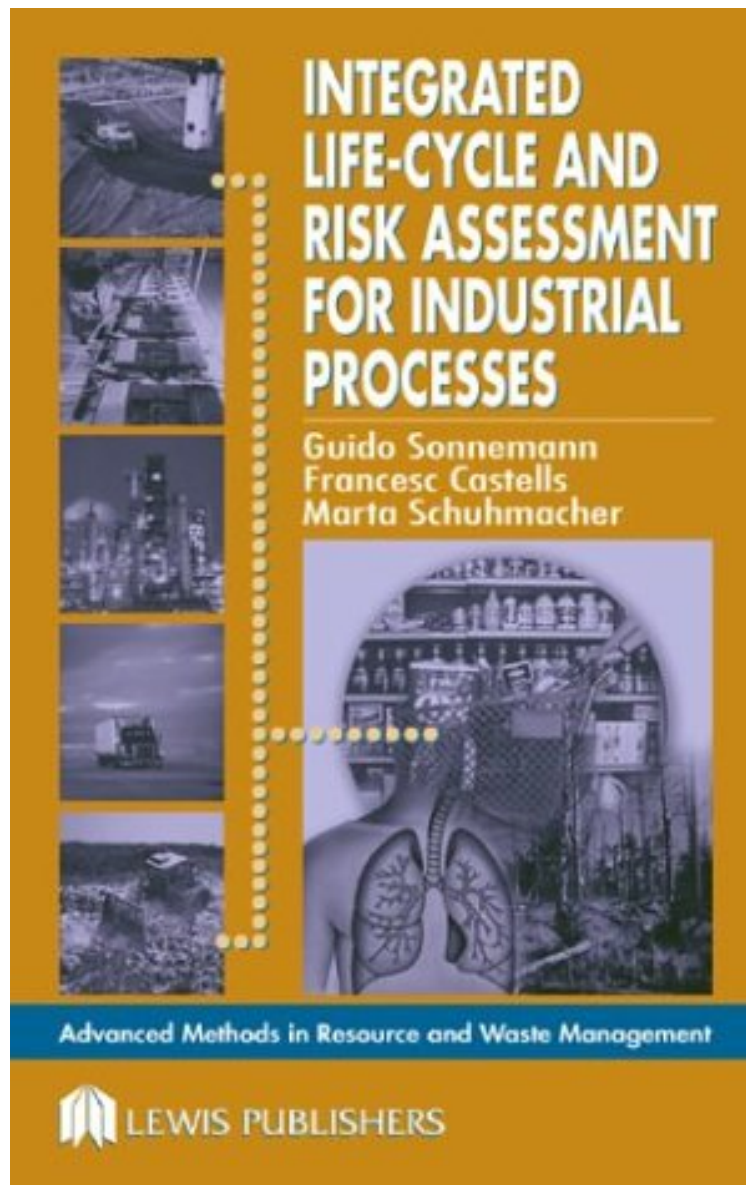


(Read and download) Integrated Life-Cycle and Risk Assessment for Industrial Processes (Advanced Methods in Resource Waste Management)

Integrated Life-Cycle and Risk Assessment for Industrial Processes (Advanced Methods in Resource Waste Management)

Marta Schuhmacher

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Marta Schuhmacher : Integrated Life-Cycle and Risk Assessment for Industrial Processes (Advanced Methods in Resource Waste Management) before purchasing it in order to gage whether or not it would be worth my time, and all praised Integrated Life-Cycle and Risk Assessment for Industrial Processes (Advanced Methods in Resource

Waste Management):

This book covers the use of life-cycle assessment, risk assessment, and a combined framework of the two in the estimation of environmental damage, providing explanations of methods and descriptions in the environmental analysis of industrial processes. The book opens by examining environmental strategies, then places life-cycle and risk assessment within an environmental toolbox, and explores the integration of the two methods via a case study. This volume is one of the first attempts to illustrate the interfaces between the tools and considers options for continued integration. The new communication between life-cycle assessment experts and risk assessment scientists results in a manual that is practical and useful in environmental analysis and decision making.

"The book prepares the reader for a deeper understanding of LCA and ERA, their similarities and differences in methodology, and domain of application. The strength of this book clearly lies in cases where dominant contributions to the overall impact or damage come from one or a few well known processes for which conditions of receiving environments can be known. Here, the integration of ERA and LCA can provide impact or damage predictions which are much better in accordance with what actually happens. Overall, the book provides a good introduction to LCA and ERA, and some interesting work on the integration of the two. Its main message concerns the possibilities and relevance of site-specific and site-dependent risk assessment, not just for individual processes but also for shorter industrial process chains" Associate Prof. Dr. Michael Hauschild, Dept. of Manufacturing Engineering and Management, Technical University of Denmark "I enthusiastically welcome Integrated Life-Cycle and Risk Assessment for Industrial Processes. In this book Guido Sonnemann, Francesc Castells and Marta Schuhmacher provide not only an updated introduction to life-cycle assessment, but also to risk assessment. While they demonstrate the potential for a further integration of these two approaches, they also show the limits and constraints. I certainly agree with them on the usefulness and need for a toolbox comprised of varied environmental system analysis methods and approaches." Mary Ann Curran, U.S. EPA, from the Foreword