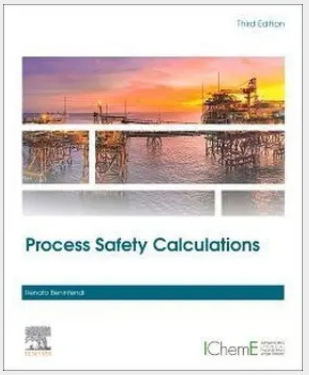
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Process Safety Calculations

Process Safety Calculations, Third Edition introduces the topic in four key sections, including Fundamentals that covers the chemistry, thermodynamics, and fluid dynamics of process safety; Consequence Assessment, which includes source and dispersion models, as well as fire and explosion analysis; Quantitative Risk Assessment, detailing methodologies such as Layer of Protection Analysis and integrity management; and finally, a new section on Process Safety of Offshore Installations, which explores risk assessments related to risers, vessel collisions, and dropped objects. Each chapter is designed to provide clear explanations and step-by-step calculations, making it a practical guide for understanding and applying process safety principles. With a focus on practical applications, the book maintains its successful approach of solving real-world examples through detailed calculations, ensuring that complex concepts are accessible and applicable.

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