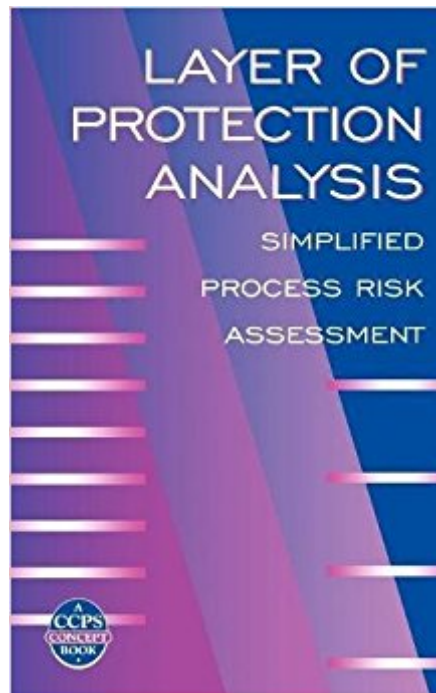




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# Layer Of Protection Analysis: Simplified Process Risk Assessment



## Synopsis

Layer of protection analysis (LOPA) is a recently developed, simplified method of risk assessment that provides the much-needed middle ground between a qualitative process hazard analysis and a traditional, expensive quantitative risk analysis. Beginning with an identified accident scenario, LOPA uses simplifying rules to evaluate initiating event frequency, independent layers of protection, and consequences to provide an order-of-magnitude estimate of risk. LOPA has also proven an excellent approach for determining the safety integrity level necessary for an instrumented safety system, an approach endorsed in instrument standards, such as ISA S84 and IEC 61511. Written by industry experts in LOPA, this pioneering book provides all the necessary information to undertake and complete a Layer of Protection Analysis during any stage in a processes' life cycle. Loaded with tables, charts, and examples, this book is invaluable to technical experts involved with ensuring the safety of a process. Because of its simplified, quicker risk assessment approach, LOPA is destined to become a widely used technique. Join other major companies and start your LOPA efforts now by purchasing this book.

## Book Information

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## Customer Reviews

The CENTER FOR CHEMICAL PROCESS SAFETY (CCPS), an industry technology alliance of the American Institute of Chemical Engineers (AIChE), has been a world leader in developing and disseminating information on process safety management and technology since 1985. CCPS has published over 80 books in its process safety guidelines and process safety concepts series. For

more information, visit [www.ccpsonline.org](http://www.ccpsonline.org).

By far, this is the best book I have read on the subject. I'll let you know what my final opinion is once I finish. The graphics are excellent but suffer from being on poor paper. Aside from that negative, this is probably the best book in the area of SIS and LOPA available. I've read a few others and after a few chapters it is difficult to follow. LOPA should precede a full-HAZOP because it is more conservative in its approach. With this in mind, the full-HAZOP should look at ways to trim the results of LOPA to find a well-explored optimal level of protection. I will add to this review after I finish the book. I hope this review was helpful. If so, please add your vote.

This is an excellent book that will give you the feel of LOPA and an understanding of its concepts. It does not get into the nit and gritty of how to calculate SIL, etc. However, with things like SIL SOLVER around, you really don't need that. By the way, COP pretty much bases their LOPA protocol on this book.

Great reference, well explained, i want the updated 2014 version v2 which comes out in June. This will keep me until then. I bought a copy for the office and I am training my new engineers with it.

Good, but partly outdated book. Clear overview about how LOPA works with some clear real case examples. Good to use one example throughout the book

The CCPS guide is a solid reference for the practice of LOPA and supports training and experience I have had in the use of LOPA.

I have not yet received this item, and is because of this is impossible to make any book review. I'm waiting to the next delivery of the book.

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Conditions and Conditional Modifiers in Layer of Protection Analysis ISO/IEC 31010:2009, Risk management - Risk assessment techniques ISO 12100:2010, Safety of machinery - General principles for design - Risk assessment and risk reduction Nursing Assessment: Head-to-Toe Assessment in Pictures (Health Assessment in Nursing) Credit Card Protection: Shopping Online, Credit Card Fraud Protection, Credit Card Insurance The Fine Art of Executive Protection: Handbook for the Executive Protection Officer Understanding the Childrens Court: Child Protection: How to handle a child protection matter Plant Drug Analysis: A Thin Layer Chromatography Atlas Chromatographic Fingerprint Analysis of Herbal Medicines: Thin-layer and High Performance Liquid Chromatography of Chinese Drugs Credit Risk Management: Basic Concepts: Financial Risk Components, Rating Analysis, Models, Economic and Regulatory Capital Explaining Risk Analysis: Protecting health and the environment (Earthscan Risk in Society) Threat Assessment and Risk Analysis: An Applied Approach Radiological Risk Assessment and Environmental Analysis Choosing Safety: A Guide to Using Probabilistic Risk Assessment and Decision Analysis in Complex, High-Consequence Systems

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