



## Maximizing Machinery Uptime, Volume 5 (Practical Machinery Management for Process Plants)

*By Heinz P. Bloch, Fred K. Geitner*

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### **Maximizing Machinery Uptime, Volume 5 (Practical Machinery Management for Process Plants)** By Heinz P. Bloch, Fred K. Geitner

The authors use their decades of experience and draw upon real-world examples to demonstrate that the application of their techniques provides a basis for equipment management, uptime maximization, and reduced maintenance costs. The text explores reliability assessment techniques such as Failure Mode, Effect Analysis, and Fault Tree Analysis of commonly encountered rotating machinery. These are all highly effective techniques that the engineer can apply to maximize uptime and thereby maximize production and profitability.

\*Provides the tools to drastically improve machinery productivity and performance

\*Bridges the gap between the theory of "reliability engineering" and the practical day-to-day measures that lead to machinery uptime

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## **Editorial Review**

From the Back Cover

[Gulf Professional Publishing]

Engineering/Maintenance Engineering/Reliability Engineering

Maximizing Machinery Uptime 5E

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Consulting Engineer, Montgomery, Texas

Fred K. Geitner

Professional Engineer, Ontario, Canada

- Provides the tools to drastically improve machinery productivity and performance
- Bridges the gap between the theory of “reliability engineering” and the practical day-to-day measures that lead to machinery uptime
- Authoritative reference for maximizing the uptime of process equipment

This fifth edition of Maximizing Machinery Uptime continues with the authors’ extremely successful and highly respected methods of ensuring the proper maintenance and ongoing reliability of equipment. With its focus on prevention, the book covers optimum machinery management from design through installation and maintenance. This is an authoritative reference for maximizing the uptime of process equipment, as well as bridging the gap between the theory of “reliability engineering” and the practical, day-to-day measures that lead to machinery uptime. The authors use their decades of experience and draw upon real-world examples to demonstrate their techniques for equipment management, uptime maximization, and reduced maintenance costs. The text explores reliability assessment techniques such as Failure Mode, Effect Analysis, and Fault Tree Analysis of commonly encountered rotating machinery-- all highly effective techniques that the engineer can apply to maximize uptime and thereby maximize production and profitability.

Heinz P. Bloch, P.E., is a licensed consulting engineer with offices in Montgomery, Texas. He retired from Exxon Chemical Company with more than 20 years of service.

Fred K. Geitner is an engineering associate with Esso Chemicals Canada, Inc.

Content: Introduction; Definitions; Failure mode and effect analysis; Fault tree analysis; Machinery risk and hazard assessment; Machinery system availability analysis; Practical field uptime assessment; Life cycle analysis; Review of mechanical structures and piping for machinery

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### About the Author

A consulting engineer residing in Montgomery, Texas, Heinz. P. Bloch has held machinery-oriented staff and line positions with Exxon affiliates in the United States, Italy, Spain, England, The Netherlands, and Japan. His career spanned several decades prior to his 1986 retirement as Exxon Chemical's regional machinery specialist for the USA. Since his retirement from Exxon, he has been in demand throughout the world as a consultant and trainer in the areas of failure avoidance, root cause failure identification, and reliability improvement. Mr. Bloch is the author/co-author of thirteen books and over 200 other publications on subjects related to machinery reliability and failure avoidance. He is the Reliability and Equipment Editor of Hydrocarbon Processing magazine and has served as chair of the annual conference program for Hydrocarbon Processing's Process Plant Reliability Conference for a number of years.

Fred K. Geitner is a registered Professional Engineer in the Province of Ontario, Canada, engaged in process machinery consulting. He retired from Imperial Oil with 20 years of service as an engineer.

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