

# Compressors: How to Achieve High Reliability & Availability (Electronics)

By Heinz P. Bloch, Fred K. Geitner

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## Compressors: How to Achieve High Reliability & Availability (Electronics)

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### Practical techniques for optimizing compressor performance

Written by experts with more than 100 combined years of industry experience in machinery failure avoidance, *Compressors: How to Achieve High Reliability & Availability* offers proven solutions to a pervasive and expensive problem in modern industry--compressor failure. This succinct, on-the-job guide addresses elusive causes of compressor failure and clearly maps out permanent remedies you can put to use right away. With a focus on centrifugal and reciprocating compressors, this accessible reference is based on real-world processes and procedures used by successful global companies.

Coverage includes:

- Compression principles and internal labyrinths
- Selection factors for process compressors
- Operation characteristics of turbocompressors
- Wet and dry gas seals
- Bearings, stability, and vibration guidance
- Lube and seal oil systems
- Impellers and rotors
- Compressor maintenance and surveillance
- Inspection and repair of rotors
- Machinery quality assessment (MQA)
- Failure analysis and troubleshooting
- Reciprocating compressor operation, control, maintenance, and rebuilding
- Maintenance and operations interfaces
- Reciprocating compressor monitoring and surveillance
- Training competent compressor engineers

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## Practical techniques for optimizing compressor performance

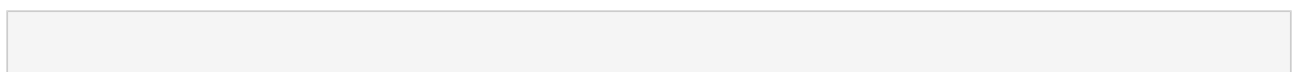
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### **Editorial Review**

#### About the Author

**Heinz P. Bloch** is a consulting engineer. Before retiring from Exxon in 1986 after more than two decades, he held long-term assignments as Exxon Chemical's Regional Machinery Specialist for the United States. Bloch has also held machinery-oriented staff and line positions with Exxon affiliates in the United States, Italy, Spain, England, The Netherlands, and Japan. He has conducted more than 500 public and in-plant courses in the United States and at various international locations and continues to have tremendous name recognition. Bloch is Reliability Editor for *Hydrocarbon* magazine.

**Fred K. Geitner** is a registered Professional Engineer engaged in process machinery consulting. Before retiring from Esso/Exxon Mobil after more than three decades, he held long-term assignments as Exxon Chemical's Regional Machinery Specialist for Canada and machinery-oriented staff and line positions with Exxon affiliates in France. Reliability improvement missions have taken Geitner to process plants and manufacturing facilities in at least 17 countries, and he continues to conduct public and in-plant courses worldwide.

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