



## Handbook of Large Turbo-Generator Operation and Maintenance (IEEE Press Series on Power Engineering)

*By Geoff Klempner, Isidor Kerszenbaum*

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This book offers the complete scope of information regarding operation and maintenance of all types of turbine-driven generators built in the world. The information presented is designed to inform the reader about actual machine operational problems and failure modes that occur in generating stations and other types of facilities.

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### **Editorial Review**

#### Review

"...a tremendous wealth of information, more than any this reviewer has seen in any other single text on the subject." (*EASA Currents*, April 2005)

"...a collection of practical information dealing with the operation, inspection, and maintenance and troubleshooting of large turbine generating units." (*E-STREAMS*, April 2005)

#### From the Back Cover

The comprehensive guide for the operation and maintenance of large turbo-generators

Operation and Maintenance of Large Turbo-Generators is the ultimate resource for operators and inspectors of large utility and industrial generating facilities who deal with multiple units of disparate size, origin, and vintage. It offers the complete scope of information regarding operation and maintenance of all types of turbine-driven generators built in the world.

Based on the authors' combined sixty years of generating station and design work experience, the information presented in the book is designed to inform the reader about actual machine operational problems and failure modes that occur in generating stations and other types of facilities. Readers will find very detailed coverage of:

- Design and construction of generators and auxiliary systems
- Generator operation, including interaction with the grid
- Monitoring, diagnostics, and protection of turbo-generators
- Inspection practices, including stator, rotor, and auxiliary systems
- Ideas for improving plant reliability and reducing costs and electrical failures
- Maintenance testing, including electrical and nondestructive examination

Operation and Maintenance of Large Turbo-Generators comes filled with photos and graphs, commonly used inspection forms, and extensive references for each topic. It is an indispensable resource for anyone involved in the design, construction, protection, operation, maintenance, and troubleshooting of large generators in generating stations and industrial power facilities. The book is also an excellent learning tool for students, consultants, and design engineers.

#### About the Author

GEOFF KLEMPNER, BAsC, is a consulting engineer in the power industry. He has served on numerous IEEE committees and standards working groups for large generators and is also a contributor to CIGRE on large rotating electrical machines.

ISIDOR KERSZENBAUM, PhD, is an IEEE Fellow, located in Irvine, California. He is a generator specialist consulting to power plants on operation, maintenance and troubleshooting of large motors and generators.

### **Users Review**

#### **From reader reviews:**

**Jennifer Perez:**

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**Pearl Sanders:**

The particular book Handbook of Large Turbo-Generator Operation and Maintenance (IEEE Press Series on Power Engineering) has a lot of knowledge on it. So when you make sure to read this book you can get a lot of profit. The book was authored by the very famous author. Mcdougal makes some research just before write this book. This specific book very easy to read you may get the point easily after scanning this book.

**Leslie Heidelberg:**

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**Thomas Garrett:**

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