



Handbook of Large Turbo-Generator Operation and Maintenance

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

The Handbook of Large Turbo-Generator Operation and Maintenance is an expanded *Second Edition* of the authors' first book, *Operation and Maintenance of Large Turbo-Generators*. This updated book covers additional topics on generators and provides more depth on existing topics. It 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. The book is also an excellent learning tool for students and consulting and design engineers. It offers the complete scope of information regarding operation and maintenance of all types of turbine-driven generators found in the world.

Based on the authors' over sixty years of combined experience in generating station and design work, the information presented in the book is designed to inform readers 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 and control, including interaction with the grid
- Monitoring, diagnostics, and protection of turbo-generators
- Inspection practices for the stator, rotor, and auxiliary systems
- Maintenance testing, including electrical and non-destructive examination
- Ideas on maintenance strategies and life cycle management
- Additional topics regarding uprating generators and long-term storage are also introduced

The Handbook of Large Turbo-Generator Operation and Maintenance, Second Edition comes packed with photos and graphs, commonly used inspection forms, and extensive references for each topic. It is an indispensable reference for anyone involved in the design, construction, operation, protection, maintenance, and troubleshooting of large generators in generating stations and industrial power facilities.

About the Author

Geoff Klempner, BSc, is a large generator specialist, residing in Toronto, Canada. 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, residing in Irvine, California. He is a generator specialist consulting to power plants on operation, maintenance, and troubleshooting of large motors and generators.

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