

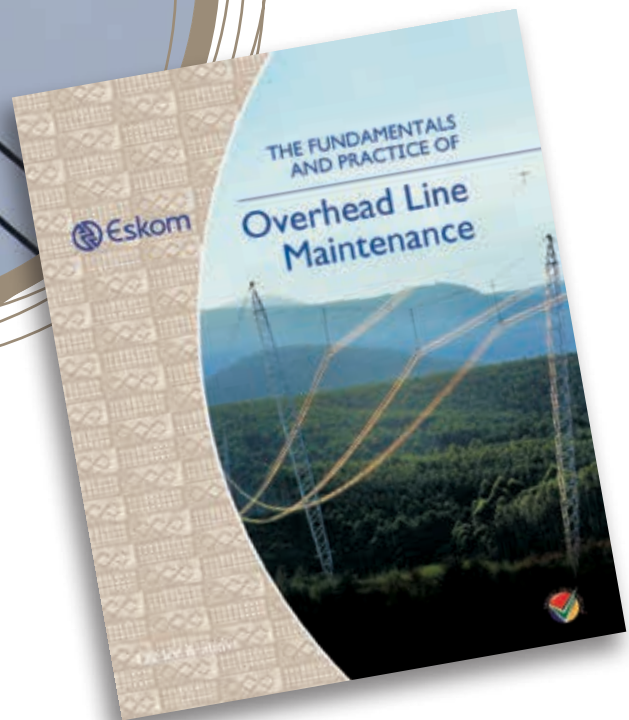
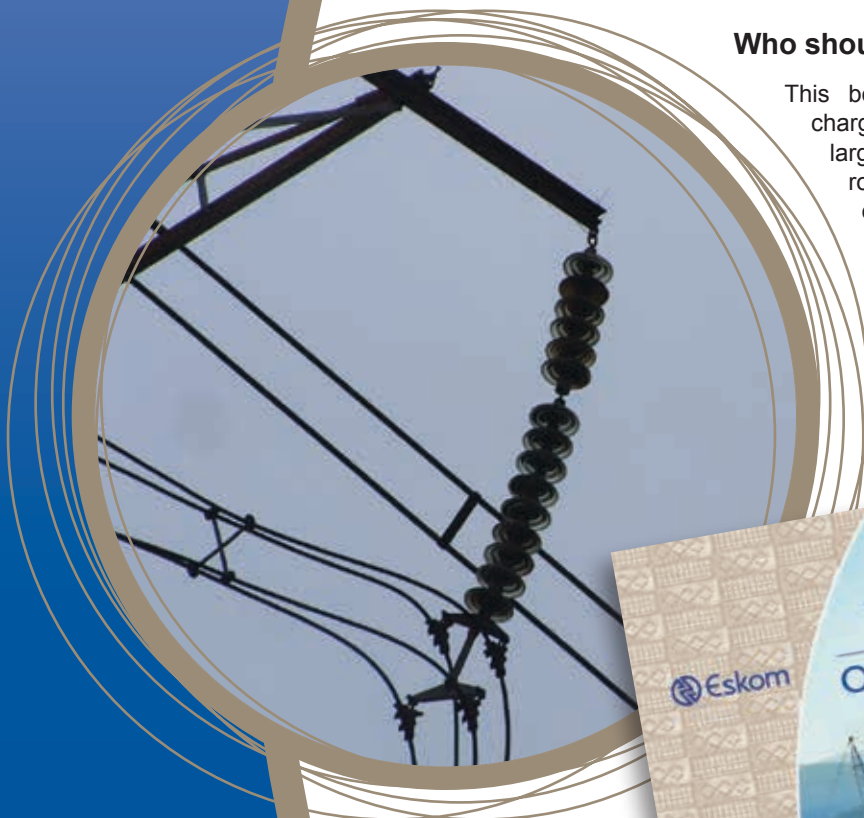
Eskom Power Series

Volume 2

The Fundamentals and Practice of Overhead Line Maintenance

Who should read this book?

This book is indispensable to the engineer charged with the responsibility of running a large power utility in today's demanding environment, in which the combined pressures of business and technical performance targets predominate.



What does this book cover?

The Fundamentals and Practice of Overhead Line Maintenance (Volume 2 in the Eskom Power Series) focuses on providing the utility maintenance practitioner with comprehensive insight into the philosophy and theory of overhead line maintenance (132 kV and above), its management and effective application.

The book deals with basic technical topics of performance enhancement, especially the mitigation techniques required for reliable operation in high lightning environments, the implementation of safe, cost effective live line working, performance audits, line inspection and servitude management.

It also shows how environmental factors such as the interaction of overhead power lines with vegetation, wildlife and birds profoundly influence the process.

This volume is made lively, informative and practical by the inclusion of numerous relevant diagrams and detailed colour photographs.

Contents of the book

- Chapter 1: The Principles of Maintenance Management for Overhead Lines
- Chapter 2: Performance of Overhead Lines
- Chapter 3: Overhead Line Inspections
- Chapter 4: Live Maintenance as Applied to Overhead Lines
- Chapter 5: Maintenance of Insulator Conductors and Hardware
- Chapter 6: Corrosion and Corrosion Protection
- Chapter 7: Foundation Maintenance and Refurbishment
- Chapter 8: Earthing and Surge Protection of Overhead Line Towers for Power Frequency and Lightning
- Chapter 9: Overview of Servitude and Environmental Management
- Chapter 10: Vegetation Management
- Chapter 11: The Management of Wildlife Interactions with Overhead Lines
- Chapter 12: Ground Erosion Protection, Rehabilitation and Maintenance

What other books are available?

Volume 1: The Planning, Design and Construction of Overhead Power Lines (pp 772), ISBN No. 978-0-620-33042-8

Volume 3: The Practical Guide to Outdoor High Voltage Insulators (pp 224), ISBN No. 0-620-31074-X

Volume 4: Inductive Instrument Transformers and Protective Applications (pp 860), ISBN No. 0-620-37865-4

Volume 5: Theory, Design, Maintenance and Life Management of Power Transformers (pp 337), ISBN No. 978-0-620-38294-6

Volume 6 (Part 1): High Voltage Overhead Power Lines: Theoretical Calculations and Formulae for Conductor Installations (pp 349), ISBN No. 978-0-620-42834-7

Volume 6 (Part 2): High Voltage Overhead Power Lines: Theoretical Calculations and Formulae for Transmission Line Towers (pp 378), ISBN No. 978-0-620-46585-4

Volume 7: Corona in Transmission Systems: Theory, Design and Performance (pp 528), ISBN No. 978-0-620-49388-8

Volume 8: Power Quality in Electrical Power Systems: A Holistic Approach (pp 665), ISBN No. 978-0-9921781-2-3

Volume 9 (Part 1): HVDC Power Transmission: Basic Principles, Planning and Converter Technology (pp 832), ISBN No. 978-0-9921781-0-9

Volume 10: Thermodynamics for Students and Practising Engineers (pp 262), ISBN No. 978-0-992-17811-6

Volume 11: Thermal Science for Engineers (pp 303), ISBN No. 978-0-992-17813-0

What books are in development?

- The Engineer's Toolkit
- HVDC Power Transmission (Part 2)
- Power Station Chemistry Book
- High Voltage Overhead Power Lines: Construction Works
- Fly Ash Properties and Utilisation Book (Parts 1 to 6)
- Insulating Fluid for the Electrical Engineering Industry
- AC Substation Design Handbook
- Coal Classification and Utilisation Book

Where can I purchase copies?

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