Plant Engineers & Managers Guide To Energy Conservation, 9th Edition

Description: Authors:
Albert Thumann, P.E., C.E.M. and Scott Dunning, Ph.D., P.E.

Now in its fully updated ninth edition, this comprehensive, best selling handbook covers both management and engineering strategies which can be utilized to slash energy costs by as much as 40% in industrial facilities. Many of the existing chapters have been revised to reflect the latest advances, and new material has been added on motor drive systems, LEED®, measurement and verification, and building commissioning. Topics covered include cogeneration, gas distributed generation technologies, steam system optimization, geothermal heat pumps, electricity purchasing strategies and power quality case studies. You'll also find ready-to-apply guidelines for life cycle costing, electrical system optimization, lighting and HVAC system efficiency improvement, mechanical and process system performance, building energy loss reduction, financing energy projects, energy purchasing, and strategies for establishing an effective energy conservation-oriented maintenance program.

Contents:
- The Role of the Plant Engineer in Energy Management
- Energy Economic Decision Making
- The Facility Survey
- Electrical System Optimization
- Utility and Process System Optimization
- Heat Transfer
- Reducing Building Energy Losses
- Heating, Ventilation and Air Conditioning System Optimization
- Cogeneration
- Establishing a Maintenance Program for Plant Efficiency and Energy Savings
- Managing an Effective Energy Conservation Program
- Industrial Power Monitoring and Control
- Reliable & Economic Natural Gas Distributed Generation Projects
- Financing Energy Efficiency Projects
- Steam System Optimization: A Case Study
- Cost Containment Design for Commercial Geothermal Heat Pumps
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