



# Power Plant Equipment Operation and Maintenance Guide

By Philip Kiameh

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## THE DEFINITIVE GUIDE TO SELECTING, OPERATING, AND MAINTAINING POWER PLANT EQUIPMENT

*Power Plant Equipment Operation and Maintenance Guide* provides detailed coverage of different types of power plants such as modern co-generation, combined-cycle, and integrated gasification combined cycle (IGCC) plants. The book describes the design, selection, operation, maintenance, and economics of all these power plants. The best available power enhancement options are discussed, including duct burners, evaporative cooling, inlet-air chilling, absorption chilling, steam and water injection, and peak firing.

This in-depth resource addresses the sizing, selection, calculations, operation, diagnostic testing, troubleshooting, maintenance, and refurbishment of all power plant equipment, including steam turbines, steam generators, boilers, condensers, heat exchangers, gas turbines, compressors, pumps, advanced sealing mechanisms, magnetic bearings, and advanced generators.

### Coverage includes:

- Methods for enhancing the reliability and maintainability of all power plants
- Economic analysis of modern co-generation and combined-cycle plants
- Selection of the best emission-reduction method for power plants
- Preventive and predictive maintenance required for power plants
- Gas turbine applications in power plants, protective systems, and tests



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#### About the Author

**Philip Kiameh, M.A.Sc., B.Eng., D.Eng., P.Eng.,** has been a teacher at the University of Toronto, Canada, for 18 years. He also teaches courses and seminars worldwide to more than 4,000 engineers across Europe, North America, and the Middle East. Professor Kiameh has written four books for working engineers and has won excellence in teaching awards from the Professional Development Center at the University of Toronto and TUV Akademie. He performed research on power generation equipment with Atomic Energy of Canada Limited and has more than 26 years of practical engineering experience with Ontario Power Generation, formerly, Ontario Hydro, the largest electric utility in North America.

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