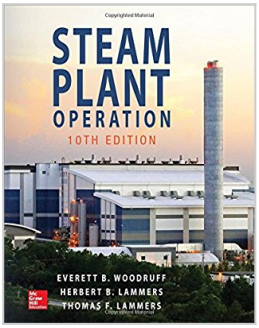

Steam Plant Operation, 10th Edition (Mechanical Engineering)

By Everett B. Woodruff, Herbert B. Lammers, Thomas F. Lammers

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The definitive reference on the role of steam in the production and operation of power plants for electric generation and industrial process applications

For more than 80 years, *Steam Plant Operation* has been an unmatched source of information on steam power plants, including design, operation, and maintenance. The Tenth Edition emphasizes the importance of devising a comprehensive energy plan utilizing all economical sources of energy, including fossil fuels, nuclear power, and renewable energy sources. This trusted classic discusses the important role that steam plays in our power production and identifies the associated risks and potential problems of other energy sources. You will find concise explanations of key concepts, from fundamentals through design and operation. For energy students, *Steam Plant Operation* provides a solid introduction to steam power plant technology.

This practical guide includes common power plant calculations such as plant heat rate, boiler efficiency, pump performance, combustion processes, and explains the systems necessary to control plant emissions. Numerous illustrations and clear presentation of the material will prove invaluable for those preparing for an operator’s license exam. Examples throughout show real-world application of the topics discussed.

COVERAGE INCLUDES:

• Steam and Its Importance
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• Design and Construction of Boilers
• Combustion of Fuels
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• Pumps
• Steam Turbines, Condensers, and Cooling Towers
• Operating and Maintaining Steam Turbines, Condensers, Cooling Towers, and

Auxiliaries
• Auxiliary Steam Plant Equipment
• Environmental Control Systems
• Waste-to-Energy Plants

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Editorial Review

About the Author

Everett B. Woodruff was a Project Engineer at A. M. Kinney, Inc., a leading architectural, engineering, and design process firm. He was involved in the design of industrial and utility power plants and provided consultation in steam plant operation and maintenance; in plant performance test requirements; and in the development of overall power plant specifications.

Herbert B. Lammers was a consultant for various industries which were dependent upon steam power plants for their reliable source of power. He provided expertise in the efficient combustion of various fuels and in the economic operation and maintenance of boilers and various power plant systems.

Thomas F. Lammers was a Senior Project Manager with Babcock & Wilcox Co., one of the world's leading designers and suppliers of steam generating systems and related power plant equipment. During his 36 years with the company, Mr. Lammers had various management responsibilities in the areas of engineering, marketing, and project management. He is the author of the Fifth through the Tenth Edition of Steam Plant Operation.

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