



Steam Plant Operation 9th Edition

Everett Woodruff, Herbert Lammers, Thomas Lammers

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The definitive guide for steam power plant systems and operation—fully updated

For more than 75 years, this book has been a trusted source of information on steam power plants, including the design, operation, and maintenance of major systems. *Steam Plant Operation*, Ninth Edition, emphasizes the importance of a comprehensive energy plan utilizing all economical sources of energy, including fossil fuels, nuclear power, and renewable energy sources.

Wind, solar, and biomass power are introduced in the book, and the benefits and challenges of these renewable resources for the production of reliable, cost-effective electric power are identified. Even with these new technologies, approximately 90% of electricity is generated using steam as the power source, emphasizing its importance now and in the future. In-depth details on coal-fired plants, gas turbine cogeneration, nuclear power, and renewable energy sources are included, as are the environmental control systems that they require. Potential techniques for the reduction of carbon dioxide emissions from fossil fuel-fired power plants also are presented.

This practical guide provides common power plant calculations such as plant heat rate, boiler efficiency, pump performance, combustion processes, and collection efficiency for plant emissions. Numerous illustrations and clear presentation of the material will assist those preparing for an operator's license exam. In addition, engineering students will find a detailed introduction to steam power plant technology.

Steam Plant Operation, Ninth Edition, covers:

- Steam and its importance
- Boilers
- Design and construction of boilers
- Combustion of fuels
- Boiler settings, combustion systems, and auxiliary equipment
- Boiler accessories
- Operation and maintenance of boilers
- 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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