



# A Practical Guide to Steam Turbine Technology

*By Heinz P. Bloch*

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Select low cost, high quality steam turbines quickly and easily A must for plant engineers looking to stay competitive in today's intense global marketplace., Heinz P. Bloch's Practical Guide to Steam Turbine Technology takes you step-by-step through the art of designing and selecting more reliable, cost-efficient turbomachinery. It includes everything you need to master steam turbine technology--from basic types and controls to the Elliot Shortcut selection method for multivalve, multistage systems. You get fingertip access to critical data on casing design. . .mechanical drive bearings. . .impulse and reaction turbine rotors. . .blade design. . .governors and control systems. . .couplings. . .rotor dynamics. . .reaction vs. impulse steam turbines. . .performance degradation. . .transmission elements. . .shortcut graphical selection methods. . .and more.

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## **Editorial Review**

### **From the Back Cover**

Let one of industry's leading authorities on machinery reliability show you how to select, operate, and maintain optimal-cost, high-quality mechanical drive steam turbines that work at maximum efficiency with minimum downtime. This indispensable "quick-reference" guide offers you authoritative information on the operating characteristics...efficiencies...design features...reliability...and maintenance of condensing, extraction, and back-pressure machines--impulse as well as reaction type. A Practical Guide to Steam Turbine Technology features: the latest design and manufacturing details incorporated in mechanical drive steam turbines manufactured in the United States and Europe; complete guidance on the various types of turbines available for the heavy process industries; details on variable speed drives and intermediate gearing; details on the arrangements, material composition, and basic physical laws governing the design of steam turbines; tips on selecting optimum configurations, controls, and components for your specific needs. Essential for mechanical and chemical engineers as well as plant operations personnel, this comprehensive, practical sourcebook will give you the expertise required to capitalize on the newest steam turbine and intermediate transmission unit innovations--and improve your plant's efficiency, availability, and profitability.

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