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Language English Title A Practical guide to steam turbine technology Author(S) Heinz P. Bloch Publication Data New York: McGraw - Hill Publication€ Date 1995 Edition NA Physical Description XV, 348p ...

## **A Practical guide to steam turbine technology**

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 ...

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Steam turbines use high-pressure steam

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Practical thermal efficiency of a steam turbine varies with turbine size, load

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condition, gap losses and friction losses. They reach top values up to about 50% in a 1,200 MW (1,600,000 hp) turbine; smaller ones have a lower efficiency. To maximize turbine efficiency the steam is expanded, doing work, in a number of stages.

## **Steam turbine - Wikipedia**

Actual Steam Rate (ASR)= TSR/turbine efficiency; ASR units are lb/hp-hr. The typical single-stage, general purpose, back. pressure turbine efficiency range is between 30 to 60%. The efficiency of a single-stage turbine is taken from the graph below and is based on something called the Velocity Ratio.

## **Appendix A: An Introduction to Steam Turbine Selection**

Rev. ed. of Practical guide to steam turbine technology / Heinz P. Bloch. 1996. Note Also issued in print and PDF versions. Related Work Bloch, Heinz P., 1933- Practical guide to steam turbine technology. ISBN 9780071508216



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its energy to the generator drive shaft, where it is converted into additional electricity.

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