



# Centrifugal Pumps

*Johann Friedrich Gülich*

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## **Centrifugal Pumps** Johann Friedrich Gülich

An up-to-date and unparalleled in-depth treatment of all kinds of flow phenomena encountered in centrifugal pumps is given, including the complex interactions of fluid flow with vibrations and wear of materials. The scope includes all aspects of hydraulic design, 3D-flow phenomena and partload operation, cavitation, numerical flow calculations, hydraulic forces, pressure pulsations, noise, pump vibrations (notably bearing housing vibrations diagnostics and remedies), pipe vibrations, pump characteristics and pump operation, the effects of highly viscous flows, pumping of gas-liquid mixtures, hydraulic transport of solids, fatigue damage to impellers or diffusers, material selection under the aspects of fatigue, corrosion, erosion-corrosion or hydro-abrasive wear, pump selection, and hydraulic quality criteria. Information on the methods and procedures for the various calculations and failure diagnostics discussed in the text are presented in tables which may be considered almost unique in the open literature. This comprehensive handbook focuses on practical application in the industry and is free of mathematical or theoretical ballast. In order to find viable solutions in practice, the physical mechanisms involved must be thoroughly understood. The book is focused on fostering this understanding which will benefit the pump engineer in industry as well as academia and students.

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