

Pump Application Desk Book

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Paul N. Garay

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This book is a practical guide to both the design and use of pumps in a number of industrial applications. The topics covered include descriptions of various kinds of pumps, the principles upon which they operate, applications of pump theory, methods to modify pumps to improve efficiency, water hammer, seals, and pump system parameters.

There is a chapter on the classification of pumps, and a summary is given of different kinds of pumps - gear pumps, centrifugal pumps, screw pumps, piston pumps, etc.

There is also a chapter on applications of pump theory which contains a general discussion on cavitation in pumps.

Noise is clearly a factor in pump design, but this topic is mentioned only briefly in Chapter 17 which is titled "Effect of Pump Speed on Selection, Design, and Use." The author points out several benefits that will (and will not) occur when pump speed is reduced. It is said that "fortunately, pumps are normally quiet machines. Some conditions under which noise should be considered are listed. The general information on pumps may, however, be valuable to an engineer faced with a pump noise problem.