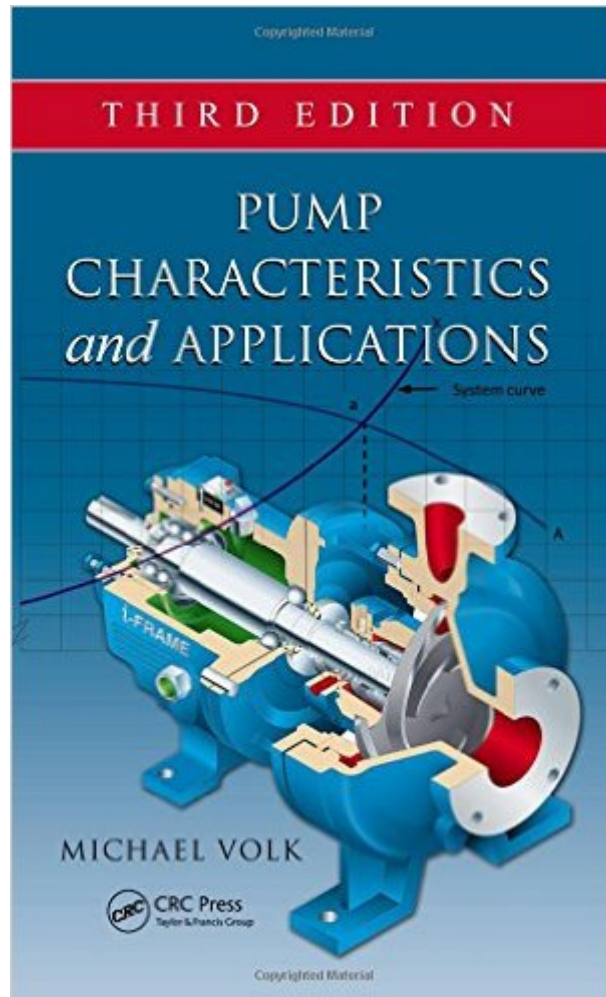


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# Pump Characteristics And Applications, Third Edition (Mechanical Engineering)



## Synopsis

Providing a wealth of information on pumps and pump systems, *Pump Characteristics and Applications, Third Edition* details how pump equipment is selected, sized, operated, maintained, and repaired. The book identifies the key components of pumps and pump accessories, introduces the basics of pump and system hydraulics as well as more advanced hydraulic topics, and details various pump types, as well as special materials on seals, motors, variable frequency drives, and other pump-related subjects. It uses example problems throughout the text, reinforcing the practical application of the formulae and analytical presentations. It also includes new images highlighting the latest generation of pumps and other components, explores troubleshooting options, and incorporates relevant additions into the existing chapters.

**What's New in This Edition:**

- Includes more than 150 full-color images which significantly improve the reader's ability to understand pump drawings and curves
- Introduces a new chapter on pump case studies in a format that provides case study background, analysis, solutions, and lessons learned
- Presents important new updates and additions to other chapters
- Includes a ten-step procedure for determining total pump head
- Discusses allowable and preferred operating ranges for centrifugal pumps
- Provides charts covering maximum and normally attainable pump efficiencies, performance corrections for slurry pumps, and mechanical seal flush plans

*Pump Characteristics and Applications, Third Edition* is appropriate for readers with all levels of technical experience, including engineering and pump industry professionals, pump operators and maintenance technicians, upper-level undergraduate and graduate students in mechanical engineering, and students in engineering technology programs.

## Book Information

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## Customer Reviews

This is one of the best books in my technical library. If you work with pumps, hydronics, or anything associated with it, you will learn a lot. If you have extensive experience, it's a great refresher, and it tackles difficult subjects like Net Positive Suction Head with ease.

I thought I knew a lot about pumps but the author put me to shame. Third edition is great. Really not only useful as a resource but interesting to read as well. Although some of the info is available through other resources and I could spend hours on Google, much easier to have it all in one place. Definitely a must have if you work with pumps.

I really like the way Volk presented the information without getting into the higher level of fluid mechanics math. I use the book for the engineering technicians I teach and the information is presented with clear understanding. This is one book I have heard students say they are not going to sell back. The second edition is great with the addition of color.

Excellent resource. I am only about a quarter of the way through the read but when I received the book I thumbed through the chapters. Great to have if you do anything with pumps.

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