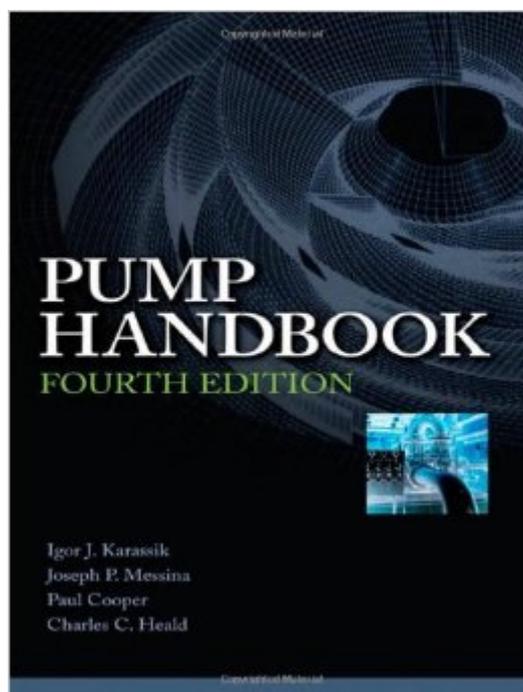


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# Pump Handbook



## Synopsis

Rely on the #1 Guide to Pump Design and Application-- Now Updated with the Latest Technological Breakthroughs Long-established as the leading guide to pump design and application, the Pump Handbook has been fully revised and updated with the latest developments in pump technology. Packed with 1,150 detailed illustrations and written by a team of over 100 internationally renowned pump experts, this vital tool shows you how to select, purchase, install, operate, maintain, and troubleshoot cutting-edge pumps for all types of uses. The Fourth Edition of the Pump Handbook features: State-of-the-art guidance on every aspect of pump theory, design, application, and technology Over 100 internationally renowned contributors SI units used throughout the book New sections on centrifugal pump mechanical performance, flow analysis, bearings, adjustable-speed drives, and application to cryogenic LNG services; completely revised sections on pump theory, mechanical seals, intakes and suction piping, gears, and waterhammer; application to pulp and paper mills

Inside This Updated Guide to Pump Technology

- Classification and Selection of Pumps
- Centrifugal Pumps
- Displacement Pumps
- Solids Pumping
- Pump Sealing
- Pump Bearings
- Jet Pumps
- Materials of Construction
- Pump Drivers and Power Transmission
- Pump Noise
- Pump Systems
- Pump Services
- Intakes and Suction Piping
- Selecting and Purchasing Pumps
- Installation, Operation, and Maintenance
- Pump Testing
- Technical Data

## Book Information

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## Customer Reviews

Please also see my review of the "Engineers Guide to Centrifugal Pumps" also by Igor Karassik. I first bought the Second Edition of the Pump Handbook many years ago (1985) thinking that it contained everything I would need to know. Looking back, I am embarrassed to think that new technologies would not impact the pump world; how wrong is that? Further, as luck would have it, I was wrestling with a problem related to rotodynamics (Reed Critical Analysis of a line shaft pump). Add to that the fact that I had now been working with positive displacement pumps of all flavors and colors. The Fourth Edition address those exact same issues. And as a bonus, throws in a review of quite a comprehensive selection of different applications for a vast array of environmentally different service conditions (different industrial applications and environments). Then, if all else fails, this book is big and heavy enough to suffice as a non-concealed weapon in almost any circumstance.

This 1632 page publication is loaded with useful information on every important facet of pump theory, performance, design, and application. Centrifugal (radial, mixed-flow, and axial flow impellers), positive displacement, solids handling, and jet pump types are covered. Special chapters are devoted to pump drives, seals, bearings, materials of construction, mechanical behavior, vibration, noise, troubleshooting, installation, operation and maintenance, intakes and suction piping, pumping systems and system characteristics, abnormal operation, waterhammer, and selecting and purchasing pumps. There is also a chapter covering pump services with sections for the main industry, utility and commercial areas of application such as power plants, water supply, petroleum, and chemicals to name a but few. There are over one hundred industry name contributors to this book. Dr. Paul Cooper, a principal author, has many pump technical papers to his name and is one of the preeminent pump engineers in the world. This handbook contains a wealth of valuable information, is very reasonably priced and is the first one I would recommend to anyone looking to buy a reference book on pumps.

I am a mechanical engineer with about 6 years of experience in pump industry. This book is a great resource for any pump design engineer. I had the privilege of attending the course by Dr. Cooper (one of the authors) and I was really impressed by the experience he had. He is the latest author to this book and he gave us a brief look to the modifications/equations changes he brought to the book. I had this book at my previous job but this time I am thinking of stop being a cheap guy, lol and buying the book myself :). Its definitely worth the price.

I needed both an overview and detailed information on certain aspects of pump behavior. This book provided both to me. It's very thick, but it has to be since it covers so much material.

Great book...a classic...on the subject of pump design. All the necessary content to make design or problem resolution possible for those less familiar.

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