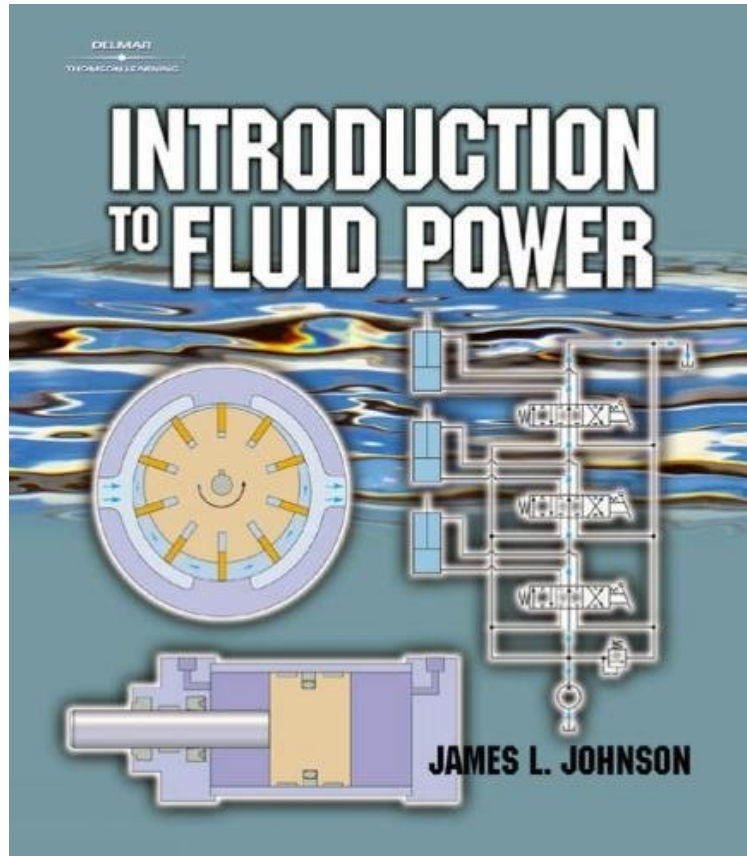


# Introduction to Fluid Power

James L Johnson

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**James L Johnson : Introduction to Fluid Power** before purchasing it in order to gage whether or not it would be worth my time, and all praised Introduction to Fluid Power:

1 of 1 people found the following review helpful. An excellent book to provide an every day tool in a mechanical engineer's toolbox.By jomudExcellent book. Although a degree in Mechanical Engineering goes over many fundamental concepts of fluid mechanics, this book covers much of what is encountered on a day to day basis as a Mechanical/Manufacturing engineer. I have read this book from cover to cover and have found it to be very well written and always understandable. I have now have a much better handle on fluid power, including an understanding of hydraulic schematics.0 of 0 people found the following review helpful. RentalBy CustomerGot me through the class for a lot less than purchasing the book....great deal1 of 1 people found the following review helpful. Basic, clear but limitedBy Adrian GutierrezThis is a good beginner's book. I've been on a search to get my hands on a good book to teach hydraulics at the college (undergraduate) level. The images are clear and colorful but in my mind, overly simplistic. A person taking a course in hydraulics has the engineering expertise to decipher a higher level graphic that can depict the functioning of systems to a higher degree.The text is very easy to read, it flows well and the author has written this book with the assumption that the reader is a novice at fluid power. A book by Johnson focused on a

higher level of understanding would be a great college book.

Featuring easy-to-understand explanations of theory and underlying mathematics principles, this book provides readers with a complete introduction to fluid power, including hydraulics and pneumatics. The differences and similarities between hydraulics and pneumatics are identified, allowing readers to leverage their knowledge en route to new skills. Detailed color illustrations, photographs, and color-enhanced schematics are used effectively to add clarity to discussion of the construction and function of components. A dedicated section on component specifications is featured in each chapter, while realistic numbers are used and problems are stated in such a way as to develop practical system design skills. Knowledge of college-level algebra is assumed, but no trigonometry or calculus is required, making this book ideal for the technologist. Nomenclature, metric prefixes and conversion factors, equations, and graphic symbols are located in handy appendices for use by readers as they progress through the book. An introduction to the industry, plus a comprehensive glossary, is also included for the benefit of those who are just beginning their study of fluid power.

An Introduction to Fluid Power. Basic Principles of Hydraulics. Hydraulic Pumps. Hydraulic Cylinders. Hydraulic Motors. Hydraulic Directional Control. Hydraulic Pressure Control. Hydraulic Flow Control. Ancillary Hydraulic Components. Basic Principles of Pneumatics. Pneumatic Power Supply. Pneumatic Components. Electrical Control of Fluid Power. Nomenclature / Common Units. Metric (SI) Prefixes and Conversion Factors. Equations. Graphic Symbols. Glossary. Index.