



# Introduction to Hydraulics for Industry Professionals: Hydraulic Systems Volume 1

*Medhat Khalil*

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## Introduction to Hydraulics for Industry Professionals: Hydraulic Systems Volume 1 Medhat Khalil

Introduction to Hydraulics for Industry Professionals is a learning package for students or professionals who are looking to build their fluid power careers. The package includes a colored *textbook*, an *interactive software-based tool to size hydraulic components*, *electronic files for the animated hydraulic circuits*, and a colored *workbook* (separate price) that contains printed power point slides, chapter reviews and assignments. The book is the first in a series that the author plans to publish to offer complete and comprehensive teaching and design tools for the fluid power industry. This book is an attempt to fill the gap between the very academic style of fluid power books and the very commercial style of books that are produced by fluid power manufacturers. The book presents the equations in both the Metric and English systems of units. The book considers presenting real-life examples for Mobile and Industrial applications. The book goes above and beyond the fundamental level of fluid power. This book covers the construction and operating principles of the hydraulic components, using the right terminologies. Topics covered include: determination of proper specifications of hydraulic components, how to perform the required calculations to size a hydraulic component, how to read hydraulic schematic diagrams, how to predict pump efficiency under specific operating conditions, how to draw the power distribution for the duty cycle of a machine, how to investigate the losses in a hydraulic system, a presentation of different concepts for building hydraulic circuits, and much more. The textbook is produced in letter size (8.5 x 11) inches, weighs 3.5 lb, and contains a total of eight chapters. The workbook is produced in the same size and weighs 1 lb. The associated software is online downloadable.

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