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Fluid power: theory and applications, James A. Sullivan, Prentice Hall, 1998, 0137555881, 9780137555888, 518 pages. This book provides a basic, practical introduction to fluid power that related theory to practice. Written from a practitioners' perspective, this book provides practical coverage of both hydraulics and pneumatics.

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Esposito, Fluid Power with Applications, 7th Edition | Pearson

Fluid power is the use of fluids under pressure to generate, control, and transmit power. Fluid power is subdivided into hydraulics using a liquid such as mineral oil or water, and pneumatics using a gas such as air or other gases. Compressed-air and water-pressure systems were once used to transmit power from a central source to industrial users over extended geographic areas; fluid power systems today are usually within a single building or mobile machine. Fluid power systems perform work by a

Fluid power - Wikipedia

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Fluidics, or fluidic logic, is the use of a fluid to perform analog or digital operations similar to those performed with electronics.. The physical basis of fluidics is pneumatics and hydraulics, based on the theoretical foundation of fluid dynamics. The term fluidics is normally used when devices have no moving parts, so ordinary hydraulic components such as hydraulic cylinders and spool ...

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Now in its sixth edition, Fluid Power with Applications continues to provide readers with an in-depth background in the field of fluid power. Emphasizing such subjects as design, analysis, operation, maintenance, and practical applications, this text not only provides the "why," but also the "how" of fluid power systems operations.

Fluid Power With Applications 6th Edition: Anthony ...

Fundamentals of Fluid Mechanics, 4th Ed., Bruce R. Munson, Donald F. Young, and Theodore H. Okiishi, (John Wiley & Sons, pub.) Topic areas: 1. Fluid properties a. Viscosity b. Compressibility c. Surface tension d. Ideal Gas Law 2. Fluid statics a. Hydrostatic pressure b. Forces and moments on solid surfaces c. Manometers 3.

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For sophomore- or junior-level courses in Fluid Power, Hydraulics, and Pneumatics in two- or four-year Engineering Technology and

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Industrial Technology programs. Fluid Power with Applications, Seventh Edition presents broad coverage of fluid power technology in a readable and understandable fashion. An extensive array of industrial applications is provided to motivate and stimulate students' interest in the field. Balancing theory and applications, this text is updated to reflect current technology; it focuses on the design, analysis, operation, and maintenance of fluid power systems.

Fluid Power Circuits and Controls: Fundamentals and Applications, Second Edition, is designed for a first course in fluid power for undergraduate engineering students. After an introduction to the design and function of components, students apply what they 've learned and consider how the component operating characteristics interact with the rest of the circuit. The Second Edition offers many

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new worked examples and additional exercises and problems in each chapter. Half of these new problems involve the basic analysis of specific elements, and the rest are design-oriented, emphasizing the analysis of system performance. The envisioned course does not require a controls course as a prerequisite; however, it does lay a foundation for understanding the extraordinary productivity and accuracy that can be achieved when control engineers and fluid power engineers work as a team on a fluid power design problem. A complete solutions manual is available for qualified adopting instructors.

Engineers not only need to understand the basics of how fluid power components work, but they must also be able to design these components into systems and analyze or model fluid power systems

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