

This book provides a clear and concise overview of the basic principles of pneumatics technology, the design of pneumatic systems and the applications of the same for a host of engineering solutions, including industrial control. Designed primarily as an undergraduate textbook for mechanical, production, automobile and mechatronics engineering disciplines, it covers the subject in sufficient detail to be of use to postgraduate students as well as those preparing for competitive examinations.

The book employs numerous examples to bring forth the basic principles underlying the use of pneumatic power; it also provides physical interpretations of mathematical analyses for understanding the solutions of complex problems with ease.

**Salient features:**

- Emphasis on presenting concepts in an unambiguous manner with the help of many worked-out problems
- Examples chosen with care to provide exposure to real-life industrial problems
- Covers the curriculum prescribed in technical universities in India
- In-depth treatment of the aspects of production of compressed air, its drying, cooling, conditioning and distribution
- Detailed coverage of the logic design of pneumatic circuits
- Includes advanced topics like KV mapping and emergency circuits, discussed using Boolean algebra as the basis for SOP and POS
- Hydro pneumatics discussed in detail with examples
- Well-framed exercise problems ranging from simple to thought-provoking ones included in all the chapters
- Additional support in the form of review questions and answers available at [www.universitiespress.com/pneumatics/resources](http://www.universitiespress.com/pneumatics/resources)

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