



Hydraulics and Pneumatics

Jagadeesha T

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This book presents a comprehensive treatment of the principles of hydraulics and pneumatics. The main objective of writing this book is to give a clear understanding of the concepts underlying hydraulics and pneumatics. The twelve years of question papers of VTU has been solved to give a flavor of questions that appear in the examination and a liberal number of numerical examples are given which include examination questions from various universities. Some of the problems of routine nature has been included to familiarize the readers with the numerical manipulations and orders of magnitude of various parameters that occur in the subject of hydraulics and pneumatics. This book is useful for students and engineers in mechanical, production, automobile, and mechatronics engineering who wish to understand Hydraulics and pneumatics technology and apply it in solving the engineering problems and is primarily designed for the use of graduate and postgraduate students, as well as students who are preparing for AMIE. Salient Features: Presentation of basic theory in simple and readily understandable form. A balanced presentation of hydraulics and pneumatics Large number of solved problems from university question papers Unsolved problems and review questions are given at the end of each chapter, focusing examination questions. Each chapter has a concise and comprehensive treatment of topics with strong emphasis on fundamental concepts. A number of theoretical questions and unsolved exercises have been given for practice so as to widen the horizon of comprehension of the topic. Contents: 1. Introduction to Hydraulic Power 2. Hydraulic Pumps 3. Hydraulic Actuators 4. Hydraulic Motors 5. Control Components in Hydraulic Systems 6. Hydraulic Circuit Design and Analysis 7. Maintenance of Hydraulic System 8. Introduction to Pneumatics 9. Pneumatic Actuators 10. Pneumatic Control Valves 11. Design of pneumatic circuits 12. Multi-Actuator circuits 13. Electrical Controls for Fluid Power Circuits (Electropneumatic/Hydraulic Control) 14. Preparation and Distribution of Compressed Air

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