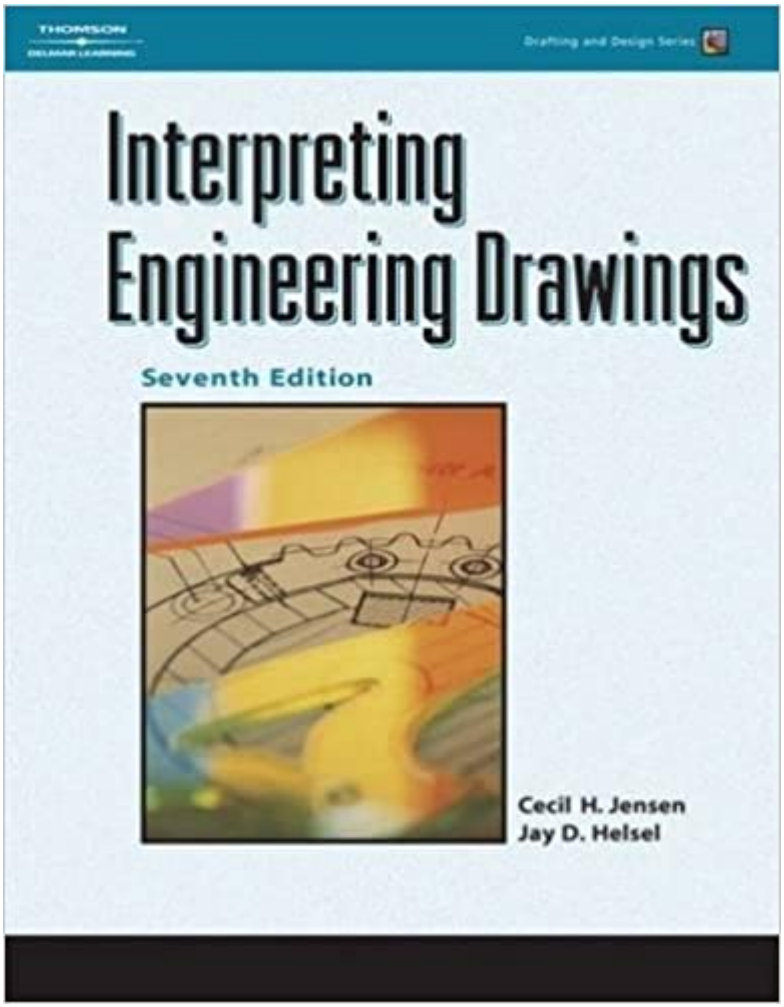
Interpreting Engineering Drawings (Drafting And Design)



Synopsis

Comprehensive, state-of-the-art training is the cornerstone of this popular guide that shows users how to create professional-quality engineering drawings that can be interpreted with precision in today's technology-based industries. Clearly the most flexible, user-friendly book of its kind on the market, the seventh edition offers unsurpassed coverage of the theory and practical applications individuals need to communicate technical concepts in an international marketplace. All material is developed around the latest ASME drawing standards, helping readers keep pace with the dynamic changes in the field of engineering graphics.

Book Information

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Customer Reviews

Unit 1 Bases for Interpreting Engineering Drawings Engineering Drawings Line Styles and Lettering Sketching Information Shown on Assignment Drawings Unit 2 Lines Used to Describe the Shape of a Part Title Blocks and Title Strips Drawing to Scale Unit 3 Circular Features Center Lines Sketching Circles and Arcs Unit 4 Working Drawings Arrangement of Views Third-Angle Projection Sketching Views in Third-Angle Projection Unit 5 Dimensioning Dimensioning Straight-Line Features Unit 6 Inclined Surfaces Measurement of Angles Symmetrical Outlines Machine Slots Unit 7 Pictorial Sketching Isometric Sketching Oblique Sketching Unit 8 Machining Symbols Not-To-Scale Dimensions Drawing Revisions Break Lines Unit 9 Sectional Views Types of Sections Countersinks, Counterbores, and Spotfaces Intersection of Unfinished Surfaces Unit 10 Chamfers Undercuts

Tapers Knurls Unit 11 One- and Two-View Drawings Multiple-Detail Drawings Functional Drafting Unit 12 Surface Texture Surface Texture Symbol Surface Texture Ratings Control Requirements Unit 13 Tolerances and Allowances Definitions Tolerancing Methods Unit 14 Inch Fits Description of Fits Standard Inch Fits Unit 15 Metric Fits Unit 16 Threaded Fasteners Threaded Assemblies Threaded Holes Inch Threads Right- and Left-Handed Threads Metric Threads Unit 17 Revolved and Removed Sections Unit 18 Keys Set Screws Flats Bosses and Pads Dimension Origin Symbol Rectangular Coordinate Dimensioning Without Dimension Lines Rectangular Coordinate Dimensioning in Tabular Form Unit 19 Oblique Surfaces Unit 20 Primary Auxiliary Views Unit 21 Secondary Auxiliary Views Unit 22 Development Drawings Joints, Seams, and Edges Sheet Metal Sizes Stampings Unit 23 Arrangement of Views Unit 24 Piping Piping Drawings Pipe Drawing Symbols Unit 25 Bearings Unit 26 Manufacturing Materials Cast Iron Steel Plastics Rubber Unit 27 Casting Processes Casting Design Cored Castings Machining Lugs Surface Coatings Unit 28 Chain Dimensioning Base Line (Datum) Dimensioning Unit 29 Alignment of Parts and Holes Partial Views Naming of Views for Spark Adjuster Drill Sizes Unit 30 Broken-Out and Partial Sections Webs in Section Ribs in Section Spokes in Section Unit 31 Pin Fasteners Sections Through Shafts, Pins, and Keys Arrangement of Views of Drawing A-85M Unit 32 Drawings for Numerical Control Dimensioning for Numerical Control Dimensioning for Two-Axis Coordinate System Unit 33 Assembly Drawings Bill of Material (Item List) Helical Springs Unit 34 Structural Steel Shapes Phantom Outlines Conical Washers Unit 35 Welding Drawings Welding Symbols Fillet Welds Unit 36 Groove Welds Supplementary Symbols Unit 37 Other Basic Welds Plug and Slot Welds Unit 38 Gears, Spur Gears Unit 39 Bevel Gears Unit 40 Gear Trains Unit 41 Cams Unit 42 Antifriction Bearings Retaining Rings O-Ring Seals Clutches Belt Drives Unit 43 Ratchet Wheels Unit 44 Modern Engineering Tolerancing Geometric Tolerancing Feature Control Frame Form Tolerances Straightness Unit 45 Straightness of a Feature Size Feature of Size Definitions Material Condition Symbols Maximum Material Condition (MMC) Regardless of Feature Size (RFS) Least Material Condition (LMC) Straightness of a Feature of Size Unit 46 Form Tolerances Flatness Circularity Cylindricity Unit 47 Datums and the Three-Plane Concept Datums for Geometric Tolerancing Three-Plane System Uneven Surfaces Datum Feature Symbol Unit 48 Orientation Tolerances Orientation Tolerancing for Flat Surfaces Unit 49 Orientation Tolerancing for Features of Size Internal Cylindrical Features External Cylindrical Features Unit 50 Datum Targets Unit 51 Tolerancing of Features by Position Tolerancing Methods Coordinate Tolerancing Advantages of Coordinate Tolerancing Disadvantages of Coordinate Tolerancing Positional Tolerancing Material Condition Basis Positional Tolerancing for Circular Features Advantages of Positional Tolerancing

Unit 52 Selection of Datum Features for Positional Tolerancing Unit 53 Profile Tolerances Profile of a Line Profile of a Surface Unit 54 Runout Tolerances Circular Runout Total Runout Establishing Datums

Cecil H. Jensen took an early retirement from teaching to devote his full time to technical writing. He held the position of Technical Director at the McLaughlin Collegiate and Vocational Institute, Oshawa, Ontario, Canada, and has more than twenty-seven years of teaching experience in mechanical drafting. He was an active member of the Canadian Standards Association (CSA) Committee on Technical Drawings. Mr. Jensen has represented Canada at international (ISO) conferences on engineering drawing standards, which took place in Oslo, Norway and Paris, France. He also represented Canada on the ANSI Y14.5M Committee on Dimensioning and Tolerancing. He is the successful author of numerous texts including Engineering Drawing and Design, Fundamentals of Engineering Drawing, Geometric Dimensioning and Tolerancing for Engineering and Manufacturing Technology, Computer-Aided Engineering Drawing, and Home Planning and Design. Before he began teaching, Mr. Jensen spent several years in industrial design. He also supervised the evening courses in Oshawa and was responsible for teaching selected courses for General Motors Corporation apprentices.Jay D. Helsel has worked more than 35 years in education, having served as a professor of applied engineering and technology courses, chairperson of the Department of Applied Engineering and Technology, and Vice President for Administration and Finance at California University of Pennsylvania. Dr. Helsel has had extensive experience teaching mechanical drafting at both the secondary and post-secondary levels and has worked in industry as well. He holds an undergraduate degree from California University of Pennsylvania, a master’s degree from the Pennsylvania State University, and a doctoral degree from the University of Pittsburgh. Dr. Helsel is now a full-time writer and has authored publications such as Engineering Drawing and Design, Fundamentals of Engineering Drawing, Programmed Blueprint Reading, Computer-Aided Engineering Drawing, and Mechanical Drawing: Board and CAD Techniques, as well as various workbooks and other ancillary products associated with the above publications.

Overall, this book is convoluted, making it difficult to follow and learn much from. Some of the answers to the chapter review questions are not covered until a later chapter. Some critical concepts to have illustrated are not illustrated while other illustrations give zero information on what you’re looking at and how it applies to the chapter. There are chapter review sections with errors in

the dimensions given. I find that a lot of the information given is cursory, lacking enough detail to fully convey the information. Without a competent teacher to wade through the chapters with, I would be totally lost reading this book.

Ordered for School

great

So often in building items that need specific details, engineering drawings are used to accommodate that purpose. I have found that this publication "Interpreting Engineering Drawings" has helped me understand and use engineering drawings to a much higher degree. It has explained symbols and reasons for using these. It has explained the drawings, why, where, how and when to do the things that need to be done at specific times under specific conditions and for varying reasons. This publication answers all those questions and more. For anyone who is needing a very good explanation on engineering drawings. I would highly recommend this publication, it will answer your needed questions.Sincerely, Alvan L. Peterman

I have not had a chance to use it much yet I had a similar book bought this for myself to add to my collection of Engineering library.

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