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Chapter 1 : Digital Design Graphics Technology (DDGT)

Fundamentals of Graphics Communication with Autodesk Inventor Software 5th Edition by Gary Robert Bertoline (Author), Eric N Wiebe (Author).

Preface changes in the content and process of graphics instruction. Although many graphics concepts remain the same, the fields of engineering and technical graphics are in a transition phase from hand tools to the computer, and the emphasis of instruction is changing from drafter to 3-D geometric modeler, using computers instead of paper and pencil. We realize that hand sketching will continue to be an important part of engineering and technical graphics for some time to come. Therefore, the text contains an appropriate mix of hand sketching and CAD instruction. Goals of the Text The primary goal of this text is to help the engineering and technology student learn the techniques and standard practices of technical graphics, so that design ideas can be adequately communicated and produced. The primary goals of the text are to show how to: Clearly represent and control mental images. Graphically represent technical designs, using accepted standard practices. Use plane and solid geometric forms to create and communicate design solutions. Analyze graphics models, using descriptive and spatial geometry. Solve technical design problems, using traditional tools or CAD. Communicate graphically, using sketches, traditional tools, and CAD. Apply technical graphics principles to many engineering disciplines. Engineering and technical graphics have gone through significant changes in the last decade, due to the use of computers and CAD software. It seems as if some new hardware or software development that impacts technical graphics is occurring every year. Although these changes are important to the subject of technical graphics, there is much about the curriculum that has not changed. Engineers and technologists still find it necessary to communicate and interpret designs, using graphics methods such as drawings or computer models. We also believe that many topics in graphics and the visualization process can be very difficult for some students to understand and learn. For these and other reasons, we have developed this text, which addresses both traditional and modern elements of technical graphics, using what we believe to be an interesting and straightforward approach. The authors of this text used this concept, putting together a team of authors, reviewers, industry representatives, focus group, and illustrators, and combining that team with the publishing expertise at McGraw-Hill to develop a modern approach to the teaching of technical graphics. The instructor is provided with a number of tools to assist in the instruction aspects, and the student is provided with tools to assist in the learning process. This text was written specifically using techniques that will prepare students to use engineering and technical graphics concepts, practices, and modern tools, to solve design problems and communicate graphically. One goal was to provide a textbook that was clear, interesting, relevant, and contemporary. Some of the distinguishing features of this text include the following: Modern topicsâ€”The book is filled with modern examples, illustrations, and industry examples so students can relate to the material being presented. Modern parts used for problem assignmentsâ€” Most end-of-chapter problems are parts or assemblies of modern devices and products. Integration of CADâ€”CAD concepts and practices have been integrated through all the chapters when they are relevant to the topic. Integration of designâ€”Design concepts are integrated through the text to give relevance and understanding of the relationship of design to technical graphics. Coverage of Modern Topics One of the primary reasons we wrote the text is that many modern topics either are not found or not covered in sufficient detail in traditional texts. Examples of contemporary topics covered in this book include: Students must learn the fundamentals whether using hand tools or CAD to communicate graphically. Therefore, coverage of traditional topics is comprehensive and in many cases includes step-by-step procedures and enhanced color illustrations to facilitate teaching and learning. The text includes the latest ANSI standard practices used in industry. Following are some of the major traditional topics covered in detail in this text.

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