

<<工程制图基础>>

图书基本信息

书名：<<工程制图基础>>

13位ISBN编号：9787302199656

10位ISBN编号：7302199655

出版时间：2009-6

出版时间：清华大学出版社

作者：窦忠强，延森（Jensen.C.），Jay D.Helse

页数：537

版权说明：本站所提供下载的PDF图书仅提供预览和简介，请支持正版图书。

更多资源请访问：<http://www.tushu007.com>

前言

本套丛书是由清华大学出版社和中国工程图学学会图学教育专业委员会共同策划的。

双语教学是近年来国内高校的教学改革热点之一，目前在数十所高校中已经开展了制图课程的双语教学。

从目前国内开展双语教学的高校使用的教材来看，大体上有以下几种情况：直接选用欧美原版教材；中国的制图教师根据我国的教学基本要求改编的原版教材，并以附录的形式讲解投影法和标准方面的差异；中国的制图教师编写的英文教材；中国的制图教师编写的中英文对照的双语教材等。

为了给我国高校的制图教师开展双语教学时提供更多的教材选择，也为了使我国高校的广大师生对美国制图课程的现状有更多的了解，清华大学出版社和中国工程图学学会图学教育专业委员会决定出版这套丛书。

经过编委会一年多的分析与研究，我们从数十本美国原版教材中选择了6本构成了本套丛书，分别为机械类的制图教材两本，近机械类与非机械类的制图教材两本，CAD与计算机图形学方面的教材两本。

需要说明的是美国的制图教材并未按照上述方式分类，所谓不同的类别是由本套丛书的编委会根据其内容来确定的。

由于美国原版教材的内容远远多于我国同类教材的内容，编委会根据我国的实际情况，以“教学基本要求”为依据，对其内容进行了删减，在这一过程中，未对原版教材作任何改写，以保证其“原汁原味”的风格。

我们希望通过这种方法，给开展制图课双语教学的院校提供一套既能保持原版教材风貌，又符合我国实际情况的英语教材。

最后，清华大学出版社及本套丛书的编委会对积极提供样书供编委会选择的美国麦格劳·希尔公司和培生公司表示衷心的感谢，是他们的积极配合使得这套丛书得以顺利出版。

限于改编者的水平，书中不当之处在所难免，欢迎广大读者批评指正。

<<工程制图基础>>

内容概要

(1) 介绍了画法几何的理论基础, 并突出工程实际的概念; (2) 文字叙述详尽, 配图恰当; (3) 介绍了现代计算机绘图技术和方法; (4) 强调工程草图的作用; (5) 通过实例介绍使用方法, 易于自学。

《工程制图基础(第5版)(影印版)》的价值: 《工程制图基础(第5版)(影印版)》全面叙述了机械产品的二维工程图绘制的理论和方法, 英语语言流畅, 是开展双语教学和学习技术英语的好教材, 可供大学本科生、研究生及科技人员和专业课教师等使用。

书籍目录

Preface Acknowledgments About the Authors Drawing Standards Update Part 1 Basic Drawing and Design Chapter 1 Engineering Graphics as a Language 1.1 The Language of Industry Drawing Standards 1-2 Careers in Engineering Graphics The Student Places of Employment Training, Qualifications, and Advancement Employment Outlook 1-3 The Drafting Office 1-4 Board Drafting Drafting Furniture Drafting Equipment Review and Assignments Chapter 2 Computer-Aided Drawing (CAD) 2.1 Overview 2-2 Components of a CAD System Hardware Software 2-3 Communication Environment Local Area Networks (LANs) Wide Area Networks (WANs) and the World Wide Web (WWW) Cooperative Work Environments 2-4 Computer-Aided Manufacturing (CAM) Computer Numerical Control Robotics Computer-integrated Manufacturing (CIM) Review and Assignments Chapter 3 Drawing Media, Filing, Storage, and Reproduction 3-1 Drawing Media and Format Drawing Media Standard Drawing Sizes Drawing Format 3-2 Filing and Storage Filing Systems CAD 3-3 Drawing Reproduction Reproduction Equipment Computer-Aided Drawing Review and Assignments Chapter 4 Basic Drafting Skills 4-1 Straight Line Work, Lettering, and Erasing Manual Drafting CAD Coordinate Input 4-2 Circles and Arcs Center Lines CAD Drawing Circles and Arcs CAD 4-3 Drawing Irregular Curves CAD 4-4 Sketching Sketching Paper Basic Steps to Follow When Sketching Computer-Aided Drawing Review and Assignments Chapter 5 Applied Geometry 5-1 Beginning Geometry: Straight Lines 5-2 Arcs and Circles 5-3 Polygons 5-4 Ellipse 5-5 Helix and Parabola Helix Parabola Computer-Aided Drawing Review and Assignments Chapter 6 Theory of Shape Description 6.1 Orthographic Representations Theory of Shape Description Orthographic Representations Methods of Representation CAD Coordinate Input for Orthographic Representation 6-2 Arrangement and Construction of Views Spacing the Views Use of a Miter Line CAD 6-3 All Surfaces Parallel and All Edge and Lines Visible 6-4 Hidden Surfaces and Edges CAD 6-5 Inclined Surfaces 6-6 Circular Features Center Lines 6-7 Oblique Surfaces 6-8 One- and Two-View Drawings View Selection One-View Drawings Two-View Drawings 6-9 Special Views Partial Views Rear Views and Enlarged Views 6-10 Conventional Representation of Common Features Repetitive Details Repetitive Parts Square Sections 6-11 Conventional Breaks 6-12 Materials of Construction Transparent Materials 6-13 Cylindrical Intersections 6-14 Foreshortened Projection Holes Revolved to Show True Distance from Center 6-15 Intersections of Unfinished Surfaces Computer-Aided Drawing Review and Assignments Chapter 7 Auxiliary Views and Revolutions 7.1 Primary Auxiliary Views Dimensioning Auxiliary Views 7-2 Circular Features in Auxiliary Projection 7-3 Multi-Auxiliary-View Drawings 7-4 Secondary Auxiliary Views 7-5 Revolutions Reference Planes Revolutions The Rule of Revolution True Shape of an Oblique Surface Found by Successive Revolutions Auxiliary Views and Revolved Views True Length of a Line 7-6 Locating Points and Lines in Space Points in Space Lines in Space True Length of an Oblique Line by Auxiliary View Projection Point on a Line Point-on-Point View of a Line 7-7 Planes in Space Locating a Line in a Plane Locating a Point on a Plane Locating the Piercing Point of a Line and a Plane-Cutting-Plane Method Locating the Piercing Point of a Line and a Plane-Auxiliary View Method 7-8 Establishing Visibility of Lines in Space Visibility of Oblique Lines by Testing Visibility of Lines and Surfaces by Testing Visibility of Lines and Surfaces by Observation 7-9 Distances between Lines and Points Distance from a Point to a Line Shortest Distance between Two Oblique Lines..... Chapter 8 Basic Dimensioning Chapter 9 Sections Part 2 Fasteners, Materials, and Forming Processes Part 3 Working Drawings and Design

版权说明

本站所提供下载的PDF图书仅提供预览和简介，请支持正版图书。

更多资源请访问:<http://www.tushu007.com>