

Autodesk 官方培训教程系列

AutoCAD 2004

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Autodesk 公司 编著

影印版

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AutoCAD 2004 培训教程

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Autodesk 公司 编著

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内 容 简 介

AutoCAD 2004 是 AutoCAD 软件的最新版本, 它的增强功能和基本功能将使用户在各个领域获益。本书是 Autodesk 公司授权培训中心惟一指定的官方培训教材, 内容包括 AutoCAD 2004 中文版简介、创建新图形、图层和绘图区设置、对象选择、基本绘图命令和编辑命令、图案填充和文字对象、尺寸标注、对象查询、夹点编辑和内容共享、出图和轴测视图等 16 章, 以及两个附录。

本书写作方式简单、明了, 采用课程目标、前提条件、主题讲解、练习实例和小结的形式。通过逐步练习的方式, 帮助用户理解 AutoCAD 的应用, 同时提供了机械和建筑方面的实例内容, 从而保证其专业性。

本书配套光盘中含有大量练习题, 是培训和自学的宝贵资源。

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AutoCAD 2004 Official Courseware

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前 言

AutoCAD 2004 是全世界最流行的计算机辅助设计软件的最新版本。它能够让用户生成非常详细的技术设计文档以便在商业领域同合作伙伴共享，从而提高了设计的专业能力。

AutoCAD 2004 的新增及增强功能可以为用户带来所有与设计相关方面的好处。

1. 简介

本教程以逐步练习的方式，帮助用户提高自己的技巧并理解其在 AutoCAD 2004 中的使用，另外还设计了用于教师向导平台的信息和练习。

本教程的目的不是复述每个功能命令的每个选项，而是通过介绍一些常用的命令来帮助用户快速高效地进行基本的绘图设计。

书中的挑战练习与两个主要的设计行业相关：建筑和机械。为了确保学习经验适用于不同设计专业的学生，我们选择了这两个主要行业。

某些主题可能不太适合于用户的当前需要，或者可能需要网络功能以及用户可能还没有具备的附加硬件。另外，本书为全球通用教材，教师和学员在学习使用时还要注意使用本地的标准，如使用国标样板图、书写本国文字等。

2. 教程目标

完成本教程后，用户应该能够做到：

- 应用 AutoCAD 2004 的特性来执行基本的绘图任务。
- 使用 AutoCAD 中的精确绘图工具来绘制精确的技术图形。
- 了解 AutoCAD Internet 特性所提供的新增功能。

3. 前提条件

本教程是为能够使用 Microsoft Windows 操作系统的 AutoCAD 2004 的新用户设计的。用户必须理解基本的 Windows 用户界面术语。

4. AutoCAD Essential Level 1 Course 的使用

本书不能取代 AutoCAD 2004 的用户手册，也不能取代命令参考。我们设计本书是用来补充这些手册中所提供的一些信息的。

本教程的目的是向用户介绍一些基本绘图及编辑命令，并解释使用 AutoCAD 2004

的一些必要的概念和原则。

我们提供了一些高级特性或概念的简介。由于时间有限,深度和广度也就有限。在本教程的上下文中,我们在力所能及的范围内向用户提供了特性或概念的基本知识。在我们的其他出版物中,将着重于那些高级主题,以便达到更高的程度。

5. 章节安排

章节概述: 介绍章节的主题,将其置于典型的设计情节的上下文中。

章节目标: 阐述通过学习本章所能获得的一些技巧或理解。

主题: 包括以下几种。

- **特性概述** 特性的简单陈述。
- **关键术语** 介绍新的术语、特性及概念。
- **过程概述** 一个逐步的过程。证明了如何使用特性,以便于用户理解使用一个命令或改变系统设置所带来的影响。

逐步练习: 提供本章所讨论的概念和特性的实际应用。在每个任务从初始阶段到完成的过程中提供了有一定深度的逐步解释。这些练习既适用于教师引导,也适用于自学方法。

挑战练习: 给用户有机会提高在逐步练习中所解释的概念和特性的应用。

可以试着自己独立完成这些练习:可以在教室内利用辅导老师不时的帮助进行,也可以通过在需要时使用在线帮助来自学。

这些练习包括显示任务每个主要阶段完成绘图的基本向导注释和图示说明。

本章小结: 简单地总结本章中所介绍的基本技巧及原则。

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1. Getting Started

In this chapter, you will become familiar with the *minimum* system requirements necessary for AutoCAD 2004 to operate efficiently. For in-depth guidance, consult your Autodesk Dealer or the Stand-Alone or *Network Deployment* guides that Autodesk provides with the software.

In this chapter, you will also explore the features of the AutoCAD *User Interface*. AutoCAD 2004 provides a Microsoft Windows XP-compliant user interface that encourages the new or novice user to delve quickly into the features and benefits of AutoCAD.

Chapter Objectives

In this chapter, you will learn:

- Minimum system requirements for AutoCAD 2004
- How to start AutoCAD from the Windows desktop and shortcut icon
- The purpose of the Command window
- How to use menus, dialog boxes, tool palettes, and toolbars to start commands and alter system settings
- How to obtain help on any feature by using a variety of options on the Help menu

Key Terms

Windows Desktop: The interface of the Windows operating system that is installed on your PC. It runs in the background of every application that is available on your computer screen.

Pointing Device: Typically, this is a two-or three-button mouse. Alternatively, it may be an *IntelliMouse* with a middle *roller-wheel*.

You use the left mouse button to click *icons*, *buttons* or select *menu* options; occasional *click and drag* modes are also required. Throughout this courseware, the term **click** refers to pressing the left mouse button once. **Double-click** refers to pressing the left mouse button twice in rapid succession.