AutoCAD 2021

for the Interior Designer

AutoCAD for Mac and PC



Visit the following websites to learn more about this book:









Table of Contents

| Chapter I | Getting Comfortable with AutoCAD | |
|-----------|---|------|
| | Introduction to AutoCAD | 1-2 |
| | Hand Drawing vs. AutoCAD | 1-3 |
| | Clarification and Ground Rules | 1-3 |
| | The AutoCAD Screen | 1-5 |
| | AutoCAD on the Mac | 1-7 |
| | Status Bar icons | 1-7 |
| | Toolbars | 1-8 |
| | Toolbars on Mac | 1-8 |
| | Command Line | 1-8 |
| | Options – Screen Color & Right-Click | 1-10 |
| | Customizing Screen Background Color | 1-10 |
| | Customizing Screen Background Color for Mac | 1-11 |
| | Customizing Right-Click | 1-13 |
| | Customizing Right-Click for Mac | 1-15 |
| | Navigation Controls: | |
| | UCS Icon, Navigation Bar, and View Cube | 1-15 |
| | Navigation Controls on the Mac | 1-16 |
| | AutoCAD Help | 1-16 |
| | Opening & Saving Drawings | 1-16 |
| | Using the Pull-Down Menu | 1-17 |
| | Selecting New | 1-18 |
| | Selecting Open | 1-19 |
| | Selecting Close | 1-20 |
| | Selecting Save | 1-21 |
| | Selecting Save As | 1-21 |
| | File types | 1-21 |
| | Look in:/Save in: | |
| | and Favorites/Where: for Mac | 1-21 |
| Chapter 2 | Setting-up and Intro to AutoCAD | |
| | Units | 2-2 |
| | Three Easy Commands to Help Get You Started | 2-5 |
| | Line | 2-5 |
| | Circle | 2-7 |
| | Erase | 2-8 |
| | Methods of Selecting Objects | 2-9 |
| | Selection Window (LEFT to RIGHT) | 2-10 |
| | Crossing Window (RIGHT to LEFT) | 2-10 |
| | Removing Objects from the Selection Set | 2-11 |
| | Grips | 2-11 |
| | | |

| | Zoom & Pan | 2-12 |
|-----------|--|------|
| | Zoom and Pan Using the Wheel Mouse | 2-12 |
| | Typing the Zoom Command | 2-13 |
| Chapter 3 | Commands – Set 1: Drawing Construction - Getting Started | |
| | Rectangle | 3-2 |
| | Explode | 3-5 |
| | Offset | 3-7 |
| | Construction Line | 3-9 |
| | Construction Line Options | 3-10 |
| | Horizontal and Vertical Construction Lines | 3-10 |
| | Angled Construction Lines | 3-11 |
| | Offset Option | 3-11 |
| | Changing Object Limits | 3-14 |
| | Trim | 3-14 |
| | Trim for Mac | 3-18 |
| | Extend | 3-21 |
| | Extend for Mac | 3-24 |
| | Lengthen | 3-27 |
| | Object Snap – OSNAP | 3-28 |
| | OSNAP icon | 3-29 |
| | Using the OSNAP Feature | 3-30 |
| | Object Snaps – Override | 3-32 |
| | Object Snap Command Alias | 3-32 |
| Chapter 4 | Hotel Suite Project – Tutorial 1 | |
| | Create the basic shell of the suite | 4-5 |
| Chapter 5 | Commands – Set 2: Working with Your Drawing | |
| | Getting Information from Your Drawing | 5-2 |
| | Measure | 5-2 |
| | Distance | 5-3 |
| | Radius | 5-5 |
| | Angle | 5-6 |
| | List | 5-9 |
| | Fillet – Creating Round or Sharp Corners | 5-10 |
| | Setting the Fillet Radius | 5-11 |
| | Trim Option | 5-11 |
| | Selecting Objects to Fillet | 5-11 |
| | Importance of Pick Location | 5-12 |
| | Chamfer – Creating Beveled Edges | 5-15 |
| | Setting the Chamfer Distance | 5-15 |
| | Manipulating Existing Objects | 5-17 |
| | Move | 5-18 |
| | Copy | 5-19 |

| | Rotate | 5-20 |
|-----------|--|------|
| | Mirror | 5-22 |
| | Array Commands | 5-24 |
| | Rectangular Array | 5-24 |
| | Count Option | 5-26 |
| | Spacing Option | 5-26 |
| | Polar Array | 5-30 |
| Chapter 6 | Hotel Suite Project – Tutorial 2 | |
| | Create the Bathroom Walls | 6-3 |
| | Create the Closet Walls | 6-13 |
| | Create the Doors and Windows | 6-20 |
| Chapter 7 | Commands – Set 3: Laying-out Your Drawing for Printing | |
| | Model Space & Paper Space | 7-2 |
| | Model Space | 7-2 |
| | Paper Space | 7-3 |
| | Viewports | 7-3 |
| | Viewports Tool | 7-4 |
| | Re-Sizing a Viewport | 7-7 |
| | Access Model Space while in a Layout | 7-7 |
| | Create and Modify Model Space Objects in a Layout | 7-8 |
| | Adjust the Position and Scale of | |
| | Model Space Objects in a Viewport | 7-8 |
| | Lock the Scale of Layout Viewports | 7-9 |
| | Plotting from Paper Space | 7-10 |
| | Page Setup Manager | 7-10 |
| | Plotting/Printing Your Drawing | 7-15 |
| | Model & Layout Tabs | 7-15 |
| | Renaming a Layout | 7-16 |
| | Renaming Layouts for Mac | 7-16 |
| | Adding a Layout | 7-17 |
| | Adding a Layout for Mac | 7-19 |
| | Add Layout from Template | 7-20 |
| | Add Layout from Template for Mac | 7-22 |
| | Deleting Layouts | 7-23 |
| Chapter 8 | Hotel Suite Project – Tutorial 3 | |
| | Create a Layout for Plotting | 8-3 |
| | Create a Drawing Format | 8-9 |
| | Create a Template Drawing | 8-11 |
| Chapter 9 | Commands – Set 4: Re-Using Objects and Getting Organized | |
| | Blocks – Treating Multiple Objects as One | 9-2 |
| | Making Blocks | 9-2 |

| | Inserting Blocks | 9-5 |
|------------|--|-------|
| | Inserting Blocks on Mac | 9-6 |
| | Design Center | 9-7 |
| | Using Design Center | 9-9 |
| | Bring Blocks into Your Drawing | 9-10 |
| | Bring Styles, etc. into Your Drawing | 9-10 |
| | Blocks Palette for Mac | 9-11 |
| | Manage Libraries: Adding Blocks | 9-11 |
| | Bring Blocks into the Drawing on Mac | 9-13 |
| | Xrefs | 9-14 |
| | Attaching a drawing as a Reference | 9-14 |
| | Clipping the visible area of a Reference | 9-16 |
| | Editing a Reference | 9-18 |
| | External Reference Manager – Detach and Reload | 9-21 |
| | Layers | 9-22 |
| | Layer Properties Manager | 9-23 |
| | Creating a New Layer | 9-23 |
| | Visibility of Layers | 9-25 |
| | Assigning a Color to the Layer | 9-25 |
| | Assigning a Linetype to the Layer | 9-27 |
| | Linetype Scale | 9-29 |
| | Current Layer | 9-30 |
| | Properties | 9-31 |
| | Changing Object Properties | 9-32 |
| | Lineweight | 9-34 |
| Chapter 10 | Hotel Suite Project – Tutorial 4 | |
| | Placing Furniture/Fixtures on the Floor Plan | 10-3 |
| | Adding the Blocks to the Drawing | 10-8 |
| | Create Blocks Library for Mac | 10-8 |
| | Adding Blocks to the Bedroom | 10-10 |
| | Adding Blocks to the Bathroom | 10-14 |
| | Adding Blocks to the Living Room | 10-16 |
| | Creating Layers | 10-19 |
| | Adding Layers to Template | 10-25 |
| Chapter 11 | Commands – Set 5: Annotating Your Drawing | |
| | Text | 11-2 |
| | Text Style | 11-2 |
| | Multiline Text | 11-5 |
| | Single Line Text | 11-6 |
| | Editing Text | 11-7 |
| | Relocating Text | 11-8 |
| | Special Characters | 11-8 |
| | Scaling Text | 11-9 |
| | ε | |

| | Dimensions | 11-10 |
|------------|---|-------|
| | Dimension Style | 11-10 |
| | Using Dimensions | 11-18 |
| | Linear Dimension | 11-18 |
| | Aligned Dimension | 11-19 |
| | Radius Dimension | 11-20 |
| | Angular Dimension | 11-21 |
| | Diameter Dimension | 11-22 |
| | Modifying Existing Dimensions | 11-25 |
| | Multileader | 11-25 |
| | Multileader Style | 11-25 |
| | Inserting a Multileader on Your Drawing | 11-30 |
| Chapter 12 | Hotel Suite Project – Tutorial 5 | |
| | Create an Elevation View | 12-3 |
| | Adding the Blocks to the Drawing | 12-5 |
| | Adding Blocks to the Bedroom Elevation | 12-5 |
| | Layout the Drawing | 12-14 |
| | Annotating the Drawing | 12-19 |
| | Creating a View Symbol Block | 12-20 |
| | Add a Block and Text, Dimension, and | 12 20 |
| | Multileader Styles to Template | 12-24 |
| Chapter 13 | Commands – Set 6: Creating and Editing Schedules | |
| | Tables – Creating a Schedule | 13-2 |
| | Creating a Table Style | 13-2 |
| | Table Title | 13-4 |
| | Table Header | 13-5 |
| | Table Data | 13-6 |
| | Inserting Tables on the Drawing | 13-7 |
| | Editing an Existing Table | 13-9 |
| Chapter 14 | Commands – Set 7: Creating Curves and Rendering | |
| | Arc | 14-2 |
| | Ellipse | 14-5 |
| | Polyline | 14-7 |
| | Spline | 14-10 |
| | Hatch | 14-14 |
| | Section Views | 14-19 |
| | Rendering | 14-20 |
| | Gradient Hatch | 14-20 |
| Chapter 15 | Miscellaneous – Techniques, Commands, and Options | |
| - | Helpful Hints | 15-2 |

| Finding the Center of a Rectangle | |
|--|-------|
| Divide | 15-4 |
| Break & Break at Point | 15-6 |
| Polygon | 15-7 |
| Stretch | 15-8 |
| Scale | 15-11 |
| Reference Option | 15-12 |
| Cut (or Copy)/Paste – Using the Clipboard | 15-13 |
| Changing Objects from Model Space to Paper Space | 15-13 |
| Tracing Pictures | 15-14 |
| Circle Options | 15-19 |
| Define the Circle with 3 points | 15-19 |
| Define the Circle with 2 points | 15-20 |
| Tan Tan Radius | 15-21 |
| Rectangle Options | 15-22 |
| Chamfered Corner Rectangle | 15-22 |
| Filleted Corner Rectangle | 15-22 |
| Offset Options | 15-23 |
| AutoCAD Calculates Distance | 15-23 |
| Through Option | 15-23 |
| Drafting Settings | 15-24 |
| Snap and Grid | 15-25 |
| Ortho and Polar | 15-25 |
| Customize User Interface - PC | 15-26 |
| Customize User Interface - Mac | 15-31 |

Index