Chapter 3 Visualizing the Model

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Hide

Hide Command 3.1

Regenerates a three-dimensional model with hidden lines suppressed.

1. **Type** HIDE at the command prompt.

Command: hide

Regenerating Model.

OR

2. Choose View, Hide.



Objects After Hidden Line Removal



Shade Command 3.2

Displays a flat-shaded image of the drawing in the current viewport while performing a hidden line removal.

1. **Type** SHADE at the command prompt.

Command: shade

Regenerating Drawing.

OR

2. Choose View, Shade.

The following are various shade options:

Flat Shaded



Gourand Shaded (Smoother)



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Gourand Shaded (edges on)

3D Wireframe





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Shadedge Variable 3.3 Controls shading of edges in rendering. 1. Type SHADEDGE at the command prompt. Command: shadedge Enter new value for SHADEDGE <3>: (enter) 0 Faces shaded, edges not highlighted 1 Faces shaded, edges drawn in background color 2 Faces not filled, edges in object color 3 Faces in object color, edges in background color



Shadif Variable 3.4

Sets the ratio of diffuse reflective light to ambient light (in percentage of diffuse reflective light).

1. **Type** SHADEDIF at the command prompt.

Command: shadedif

Enter new value for SHADEDIF <70>:20

Hidden Lines in Plots

Hidden Line Removal and Shade for Plots 3.5

If your drawing contains 3D faces, meshes, extruded objects, sur faces, or solids, you can direct AutoCAD to remove hidden lines or shade from specific viewports when you plot the paper space view.

1. **Type** PLOT at the command prompt.

Command: plot

2. **Choose** the check box beside the option to remove hidden lines.

🕏 Plot			?	\mathbf{X}
Layout name Page :		Page setup name	ge set <u>up</u> name	
Model	Save changes to layout	<select page="" setup="" t<="" td=""><td>to apply></td><td></td></select>	to apply>	
Plot Device Plot Setti Paper size and pap Plot device: Paper size: Printable area: Plot area Usints Egtents Egtents View DLE1 Window EgtI Preview	ngs er units Wone Letter (8.50 x 11.00 inches) 10.50 x 8.00 inches Scaled to Fit Scaled to Fit Scale jneweig Plot offset Center the plot X 0.00 Y 0.00 Partial Preview	res mm = 0.5194 units hts inches inches	Drawing orientation ○ Portrait ○ Lagdscape ○ Hot opside_down Shade dviewport options Shade plot: As Displayed Quality: As Displayed Uptions Hidden PPic Phot options Phot options Phot options Phot options Phot options glast Phot options Phot options glast Phot options colores Phot options glast Phot options colores Phot options glast Phot options colores Phot options glast Phot colores Phot options OK Cancel Help	Hides Lines for Plots

Hidden Lines in Plots

Hidden Line Removal in Mviews (Paper Space) 3.6

1. **Type** MVIEW at the command prompt.

Command: mview

Specify corner of viewport or

[ON/OFF/Fit/Shadeplot/Lock/Object/Polygonal/Restore/2/ 3/4] <Fit>: s

Shade plot? [As displayed/Wireframe/Hidden/Rendered] <As displayed>: **h**

Select objects: pick mview in paperspace.

Select objects: enter

NOTE: You do not see t,he effect of this command until you plot the drawing.





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