

Mechanical Drawing: Board & CAD Techniques

Chapter 8 Sectional Views

Chapter Summaries

Section 8.1 Types of Sectional Views

- Sectional views are used to show complex interior details.
- Special section-lining patterns, or symbols, are used to represent specific materials.
- Each of the various types of sectional views has a specific purpose; these views should not be used interchangeably.
- Cutting-plane lines or centerlines may be used to show where a section is taken.
- Hidden lines are used on sectional views only if they are needed for clarity.
- Bolts, shafts, pins, and other similar parts are usually not sectioned even if the cutting plane passes through them.

Section 8.2 Techniques for Sectioning

- Sectioning techniques for board drafting and CAD help save time in creating sectional views.
- Accurate sectional views can be drawn with board techniques by using section line spacing and outline sectioning.
- To develop a sectional-view drawing, first determine which normal views are necessary. Then decide what type of sectional view is needed to show interior detail with few, if any, hidden lines.
- In CAD, section lining is often referred to as hatching.
- When developing sectional views, planning is important to maximize efficiency.