

Mechanical Drawing: Board & CAD Techniques

Chapter 11 Fasteners

Chapter Summaries

Section 11.1 Types of Fasteners

- The screw thread is the most common of the many different kinds of fasteners.
- The terms used to describe screw threads include the crest, root, pitch, major diameter, and minor diameter.
- The main screw-thread series defined by ASME B1.1 are coarse-thread, fine-thread, and extra-fine thread.
- Screw threads are divided into classes of fit based on their tolerances and allowances.

Section 11.2 Drawing Screw Threads and Fasteners

- Fasteners are usually shown on a drawing using symbols, and not the fastener's actual size and specifications.
- Under ASME regulation, screw threads can be drawn using simplified, schematic, or detailed representations.
- In board drafting, fasteners are drawn using approximated representations, while CAD houses fasteners in a symbol library.
- Fastener symbols can be incorporated into any drawing using a CAD symbol library.