Instruments Mechanism and Metrology

Materials for Instruments, bearings, machine bearing; Use of instruments bearings, different types of bearing and guides. Brief introduction to steps, couplings, clutches, joining and functional mechanisms.


Standards of measurements, standards of length, end standards, Vernier callipers, fixed gauges, inside, depth and height gauges, Gauge blocks surface plates. micrometc. Angular measurement sine bars, angle gauges, levels, clinometers, auto collimations, taper gauge. direct measuring tools and instruments. Optical projectors and microscopes. Horizontal vertical and cabiner profile projector. Toolmakers and workshop microscopes. End standards, end bars, slip gauges.


Surface texture measurements and gauging.

Management of inspection and quality control. Automatic dimensional controls manufacturing processes.

RECOMMENDED BOOKS