

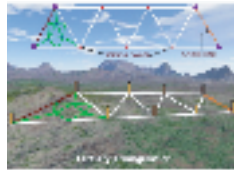
System Requirement:- IBM-PC Compatible Min P-III with Window-OS, 128 MB RAM/Multimedia Kit

Theory module

Features : Theory, Figures, Photographs, Animations With Controller, Highlighter Tool, Note Creation Facility, Systematic Page Navigation, Printing Facility, Access to Videos at Appropriate Locations.

List of Topics

Geodetic Surveying



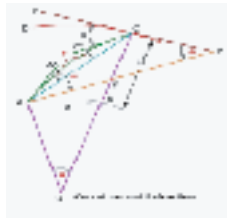
Introduction, Object of Geodetic Surveying, Methods of Geodetic Surveying, Triangulation, Classification of Triangulation Systems, Triangulation Figures, Steps for Triangulation, Erection of Signals and Towers, Measurement of Horizontal Angle, Astronomical Observations to Determine True Meridian, Measurement of Base line, Computation Methods

Triangulation Adjustment:

Laws of weights, Kinds of Errors, Most Probable Value of Conditioned and Independent Quantities, Method of Least Square, The Probable Error and its Determination, Station Adjustment, Figure Adjustment and Spherical Triangle.

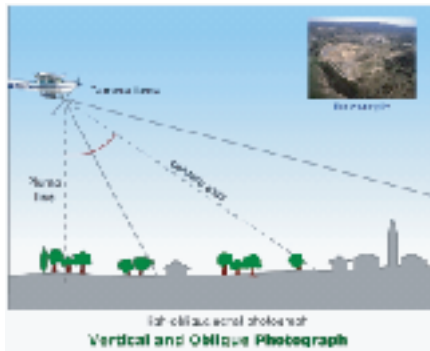
Trigonometrical leveling

Introduction, Correction for Curvature and refraction, Axis signal correction, Elevation methods-By single observation & Reciprocal observation



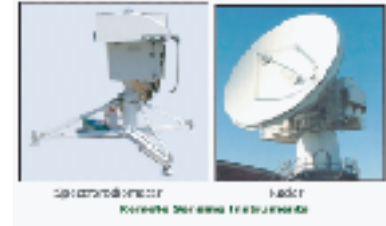
Aerial Photogrammetry

Vertical, Tilted and oblique Photogrammetry, Arial Camera, Flight Planning, Scale of Vertical Photograph, Application of Air Photography, Interval Between Exposure, Ground Control, Radial Line Method, Mirror and Lens Stereoscope, Stereo meter, Mosaics, Photo interpretation, Photogrammetric Height.



Remote Sensing:

Electromagnetic Spectrum, Remote Sensing Method, Classification of Remote Sensing Systems, Application of Remote Sensing, Satellite Remote Sensing, Global Positioning System



Hydrographic Surveying:

Object of Hydrographic, Establishing Controls, Shoreline Survey, Soundings and Soundings Equipments, Location by Range and One Angle From Shore, Location by Transit and stadio, Location by Range and One Angle From Boat, Location by Two Angles From Shore, Location by Two Angles From Boat, Location by Cross Rope, Location by Intersecting Ranges, Location by Distance along Wire or Rope, Reduction and Plotting of Soundings, Three Point Problem by Analytical and Graphical Method, Tidal Gauges.

Modern Surveying Equipments:

Introduction, Geodimeter, Tellurometer, Tunnel/Alignment, Distance Meter, Distomat, Total Station.

