

MODERN METHODS IN GEOINFORMATICS

2-0-2-0-8

Review of principles: Measurements, errors, networks, coordinate systems and reference surfaces

GNSS: Principles, errors, DGPS, DOP, GPS survey Methods and plans

Gravimetry: Role of gravity in surveying, principles of gravimetry, terrestrial, airborne and spaceborne gravimetry, gravity networks and their adjustment

Hydrography: Ocean processes and tides, Coastal and maritime zones, Hydrographic reference surfaces, Maritime Positioning, Bathymetry, Nautical Charts LiDAR & Photogrammetry, GIS

Applications: Infrastructure construction, Infrastructure monitoring, Earth Observation