

GLOBAL NAVIGATION SATELLITE SYSTEMS (GNSS) FOR SURVEYING AND MAPPING

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GNSS Basic Observables: Pseudo Ranges and Carrier Phase Measurements. GNSS Surveying Techniques: Point positioning and Differential Positioning, DGPS and SBAS. Relative positioning: Static – Rapid Static and Pseudo Kinematic; Kinematic positioning – Pure Kinematic, Semi Kinematic and Real Time Kinematic (RTK) methods of observations. Real Time Network (VRS) services. Planning and field observations, Networking, Data Post processing: with Vendor Software and Scientific software. CORS, Setting up of Regional Geodetic Networks and Development of Regional Geoid Models. GNSS applications to Global, Regional and Local issues. IUGG, IAG, IGS and IERS services.