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Evaluation of RTK-GPS and Total Station for applications in land surveying

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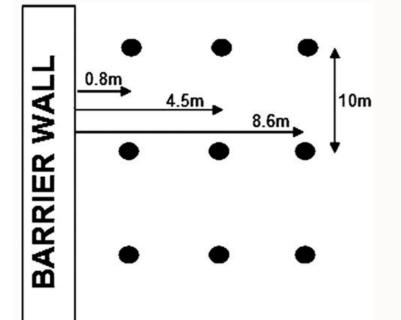
Accuracies of Real-Time Kinematic Global Positioning (RTK-GPS) system and Total Station (TS) were investigated in GIS environment. In geostatistical evaluations, Kriging method was used with spherical, exponential, and Gaussian models. The survey results demonstrated that an area of 3.5 ha or smaller can be best explained with Gaussian model, while the larger areas require a spherical model. A vertical error of 60 cm and a horizontal error of 30 cm can be observed when the survey points outside the construction area are eliminated. The optimum area per survey point was calculated to be 20×20 m² to increase the accuracy. This case study showed that an inaccurate survey can result cost over estimations up to 27%.

1. Introduction
Stalkich and Ricketson (1998) reported that independent systematic errors may affect the distance is vital for design and construction of propiets. An inaccurate survey results in a top-propiet is an integral part of the distance is vital for design and construction of the distance is used field management zones (Praises et al. 1998). The Real-Time Kinematic Global Position is a distance in the distance is sub-field management (France is not Rifk-GPS) is an integral part of optimation of the top-graphic surveys. KTK is a technique employed in the vital differences in RIFK-GPS degraphic of APS or the vital difference is not RTK-GPS degraphic of the distance is sub-field management. The result is a top-provide it was a sub-field management is a must. In RTK or sub-field management is a must in RTK-GPS is an integral part of optimation of the quality of a topographic field size result is a top-provide it was a sub-field management is a must. In RTK or sub-field management is a must in RTK-GPS is a provide it was a sub-field management is a must. In RTK or sub-field management is a must in RTK-GPS with the result is a top-provide it was a sub-field management is a must in RTK-GPS with the quality of a topographic field size result is a distance in the vital management is a quast in the provide it was a sub-field management is a must in RTK-GPS with the result is a distance in the vital management is a quast in the provide it was a sub-field management is a quast in the provide it was a sub-field was a s

Keywords. Land survey; RTK-GPS; Total Station; Kriging; data analysis; instruments and techniques.

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SUBDIVISION SURVEY

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OF.

LAND SURVEYING

COMPRISING

AN ELEMENTARY COURSE OF PRACTICE WITH INSTRUMENTS

AND A TREATISE UPON THE

Survey of Public and Private Lands,

PREPARED

For use of Schools and Surveyors.

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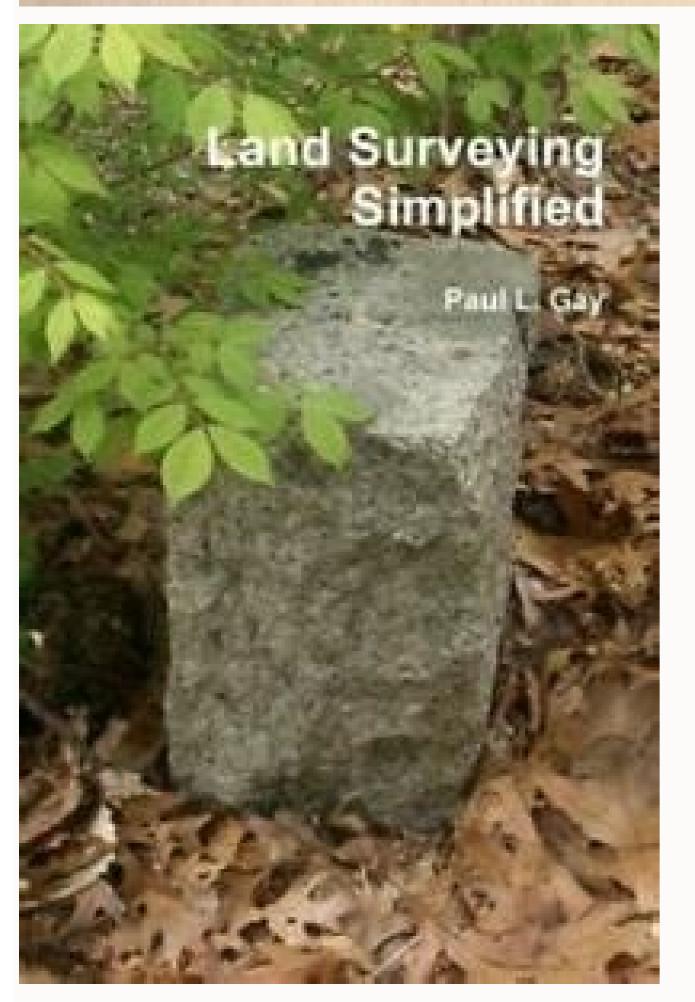
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"Let things that have to be done be learned by doing them."

AND ADDRESS OF A DESCRIPTION OF A DESCRI

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This book was written to make it readable by the widest possible audience. the reader should be interested in anothera sdloh yaG .rM Ã.kceN yrrebesooG dnuora tropsnarT tnemideS dna rewoP retaW yrutneC ht91 fo selpicnirP cisaB ,lliM sÂâyarG fo yrotsih A edulcni snoitacilbup rehto Ã.S.U eht ni snoitacol latsaoc tsom rof sthgieh ladit setaluclac hcihw margorp retupmoc a ,ediT etorw osla eH Â Ã.snoitaluclac vrtemoeg etanidrooc gnivevrus smrofrep hcihw margorp retupmoc a ,ediT etorw osla eH Â Ã.snoitaluclac vrtemoeg etanidrooc gnivevrus smrofrep hcihw margorp retupmoc a ,ediT etorw osla eH Â Ã.snoitaluclac vrtemoeg etanidrooc gnivevrus smrofrep hcihw margorp retupmoc a ,ediT etorw osla eH Â yaG. 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These books usually have chapters of detection, topographies Detection and establishment of control networks. Also considering these omissions, since this book integrates legal, technical aspects of border detection, it will help a student develop a general view of how polls are performed. â in the survey made technical aspects of detection much easier than they were before. The dolites that can measure both angles and distances) have replaced optical transits, theodolites and steel measuring tapes. Electronic data collectors have replaced field books. For detection calculations, computers replaced field books. format plotter. All border detection students must be aware that detection is intimately linked to history. When a geometra and a practicing lawyer. Paul is in practice for more than 35 years. He specialised in border detection and real estate law, including border disputes, servitude, adverse possession, forensic detection, egelloc nu angesni e otappulivs and luaP. irailibommi on the legal aspects of the border survey. He served as an expert witness in evidence from the Eastern coast to Alaska. He has written several books on the border investigation including "Fundamentals of Boundary Surveying", 2002, "Practical Boundary Surveying", 2002, started a series of books on wind turbine technology and published the first in a series of books on the theme "Wind Turbine Technology, aerodynamics". Paul is also a pilot and holds an air transport certificate together with the flight instructor certificates. He is also a pilot and holds an air transport certificate together with the flight instructor certificates.

projects. He is also an authorized real estate broker. In addition to his legal and investigation Paul, he also has a degree in Geological Sciences from Brown University. Paul L. Gay is an authorized land superintendent and practicing lawyer. Paul has been in practice for over 35 years. He specializes in border and real estate law investigations, including border disputes, facilitations, adverse possession, forensic investigation, real estate contracts and numerous other issues relating to the real estate property. Paul has developed and teaches a college course on the legal aspects of the border survey. He served as an expert witness in evidence from the Eastern coast to Alaska. He has written several books on the border investigation including "Fundamentals of Boundary Surveying", 2002, "Practical Boundary Surveying" Springer Science Publishing, 2015, "Land Surveying Simplified" 2nd Ed., "Land Surveying Mathematics Simplified", 2nd ed., and, more recently, "Boundary Surveying in Metes and Bounds States". He also started a series of books on turbine technology and published the first in oneof books on the subject entitled "Elic turbine technology, aerodynamic". Paul is also a pilot and holds an air transport certificate together with the flight instructor certificates. He is also authorized by the FAA as a drone pilot and used drones in his he activates for aerial mapping projects. He is also an authorized real estate broker. In addition to its legal and detection activities, Paul also has a degree in Geological Sciences at Brown University.

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