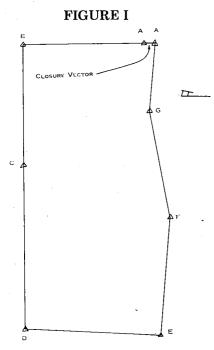
## TRAVERSE ERROR ANALYSIS

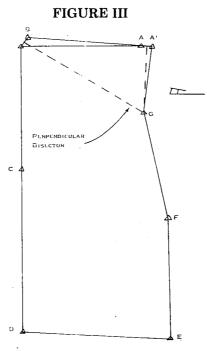
BY ELBERT BASSHAM

Urban Engineering Corpus Christi, Texas June, 1975

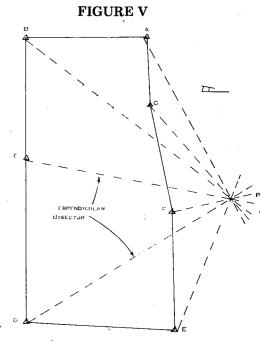
Abstract: Development, illustrations and a method are given for identifying the magnitude, direction and location of errors and combinations of errors in a traverse loop.



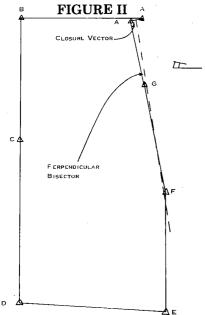
Error in Distance. AB too short or DE too long. Its magnitude is the same as AA'.



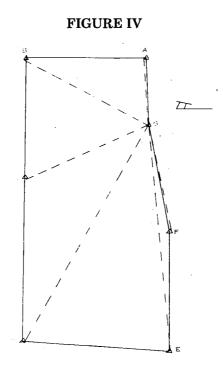
Angular error at G. Magnitude one-half angle AGA' or one-half angle AGA'.



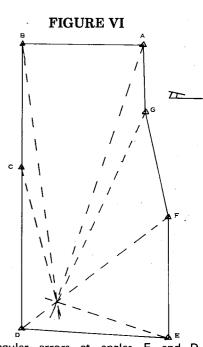
Combined distance and angular error. Distance error in line FG, magnitude GG'. Angular error at F, magnitude one-half FPF'.



Error in angle G or F. If at angle G, its magnitude is the same as one-half angle AGA'. If at angle F, its magnitude is the same as one-half angle AFA'.



Angle G has an angular error.



Angular errors at angles F and D. Magnitude not determined.