



# Dilution Of Precision

**H Kauffman**



## Dilution Of Precision

**Dilution of Precision Computation Procedure When Measuring Receiver Position in Geodetic Coordinates**, 1984 Certain users of the Global Positioning System GPS use the geodetic coordinate system to define their receiver position Satellite positions computed from either ephemeris or almanac data are best stated however in terms of Earth centered Earth fixed ECEF cartesian coordinates This presents a problem when computing values for a dilution of precision DOP in position the measure by which the four satellites most suitable for range measurements are determined Before receiving transmissions from GPS satellites and using them to determine precise receiver position the user must determine which four satellites are in the configuration that will maximize system accuracy This is accomplished by computing a DOP value for all groups for four satellites that are in view For GPS users who measure their receiver position in geodetic coordinates this value should reflect the use of these coordinates rather than ECEF cartesian coordinates This report outlines five algorithms all used in the process of computing a DOP in position The method to compute satellite position is described assuming the user is using almanac data and the dilution of precision in position term is defined in terms of geodetic coordinates The expressions defined for DOP are for users at sea level measuring receiver position in Earth fixed geodetic coordinates Keywords Geometric dilution of precision GDOP

## **Improvements and Extensions of the Geometrical Dilution of Precision (GDOP) Concept for Selecting Navigation**

**Measurements** William L. Brogan, NEBRASKA UNIV LINCOLN DEPT OF ELECTRICAL ENGINEERING., 1981 The optimal measurement selection problem is studied for the Global Positioning Satellite system GPS The fundamentals of the Geometrical Dilution of Precision GDOP concept are briefly reviewed because GDOP is frequently used to rank the effectiveness of potential measurements It is shown that GDOP does not always select the best measurements in the sense of minimum mean square navigation error For this reason weighted least squares and minimum variance Kalman filter methods are used to derive several improved measurement ranking schemes Nonuniform measurement noise and a prior knowledge about the state are taken into account Any specified weighted combination of the component error variances can be minimized Eigenvalue eigenvector theory is used to derive useful bounds and to provide geometrical insight A purely algorithmic approach is also presented and applied to a number of representative GPS cases In addition to the static single time point selection problem the time sequential selection problem is considered It is shown that the choice giving the smallest instantaneous position error may not give the smallest time average position error because of the trade off existing with velocity errors A promising approach is formulated for the sensor substitution problem That is should be degraded jammed satellite channels be deleted from the measurements and if so when Which backup sensors should be used instead A suboptimal filtering approach using state vector partitioning is used to derive some preliminary answers to these questions

*Global Positioning System Theory and Design* Alyson Kelly Choy, 1996

**Dilution of Precision (DOP) Calculation for Mission Planning Purposes** Ming Fatt Yuen, 2009 The Joint Munitions Effectiveness Manuals JMEM were developed by the Joint Technical Coordinating Group for Munitions Effectiveness JTCE ME to provide a set of data and methodologies that would permit a standardized comparison of weapon effectiveness across all service communities In recent years the JMEM are being integrated into a single software program that allows users to determine the effectiveness of weapon systems against a specified target irrespective of the weapon delivery mode As part of the upgrading effort this thesis aims to develop a program written in Visual C to automate the calculation of the Dilution of Precision DOP associated with the delivery accuracy of GPS guided weapon systems The DOP values generated by the program were compared with those generated by commercial DOP calculation software for validation Relationship between the Vertical DOP and Horizontal DOP as well as the effect of using outdated almanac information to calculate DOP values were studied It was found that the loss of one visible satellite could cause the DOP to increase by as much as 38%

**Reducing Geometric Dilution of Precision Using Ridge Regression Signal Processing** Robert J. Kelly, 1986

**Geometric Formulas for Dilution of Precision Calculations** Paul Darrell Massatt, Karl Rudnick, Institute of Navigation, 1990 Geometric formulas are presented for computing a variety of different dilutions of precision that can be used in determining the expected rms error given knowledge of the user range errors associated with each satellite and the receiver These formulas include both two and three dimensional error estimations with or without knowledge of clock offset and altitude Also geometric formulas are given for the cases where satellite user range errors are not assumed uniform A methodology is then provided for computing other dilution of precision formulas

**Dilution of Precision in Geodetic Positioning Using the Global Positioning System** Eduardo Antonio Fernandez Falcon, Clyde C. Goad, 1989

**Applying Weighted Geometric Dilution of Precision Approximation to Neural Network with Adaptive Learning Rate for Precise Mobile Station Positioning** 2018

**A Study of Satellite Navigation, Dilution of Precision, and Positioning Techniques for Use on and Around the Moon** John H. MacNicol, 2002

**Dilution of Precision-Based Lunar Navigation Assessment for Dynamic Position Fixing** National Aeronautics and Space Administration (NASA), 2018-06-27 The NASA Vision for Space Exploration is focused on the return of astronauts to the Moon While navigation systems have already been proven in the Apollo missions to the moon the current exploration campaign will involve more extensive and extended missions requiring new concepts for lunar navigation In contrast to Apollo missions which were limited to the near side equatorial region of the moon missions under the Exploration Systems Initiative will require navigation on the moon s limb and far side As these regions have poor Earth visibility a navigation system comprised solely of Earth based tracking stations will not provide adequate navigation solutions in these areas In this paper a Dilution of Precision DoP based analysis of the performance of a network of Moon orbiting satellites is provided The analysis extends previous analysis of a Lunar Network LN of navigation satellites by providing an assessment of the capability associated with a variety of assumptions These assumptions are with regard to the navigation receiver and satellite visibility The assessment is accomplished by making appropriately formed estimates of DoP Different adaptations of DoP i e GDoP PDoP etc are associated with a different set of assumptions regarding augmentations to the navigation receiver or transceiver Sands Obed S and Connolly Joseph W and Welch Bryan W and Carpenter James R and Ely Todd A and Berry Kevin Glenn Research Center Goddard Space Flight Center Jet Propulsion Laboratory NASA TM 2006 214247 E 15492

**Computational Principles of Mobile Robotics** Gregory Dudek, Michael Jenkin, 2024-01-31 Now in its third edition this textbook is a comprehensive introduction to the multidisciplinary field of mobile robotics which lies at the intersection of artificial intelligence computational vision and traditional robotics Written for advanced undergraduates and graduate students in computer science and engineering the book covers algorithms for a range of strategies for locomotion sensing and reasoning The new edition includes recent advances in robotics and intelligent machines including coverage of human robot interaction robot ethics and the application of advanced AI techniques to end to end robot control and specific computational tasks This book also provides support for a number of algorithms using ROS 2 and includes a review of critical mathematical material and an extensive list of sample problems Researchers as well as students in the field of mobile robotics will appreciate this comprehensive treatment of state of the art methods and key technologies

**Global Positioning System** Bradford W. Parkinson, James J. Spilker, 1996

**Position of SD Stations** Darko Veberič, Ricardo Sato, Andreja Sušnik, 2012

**GPS** Jeff Hurn, 1989

**A Study of Satellite Navigation, Dilution of Precision, and Positioning Techniques for Use on and Around the Moon** John H. MacNicol, 2002-03-01 The National Aeronautics and Space Agency is examining several approaches to meet navigational requirements for spacecraft in lunar orbit in transit to or from the moon and for personnel on the lunar surface requiring an accurate real time on board navigation capability This work addresses one possible solution to the navigation problem in the vicinity of the moon using a lunar satellite navigation system Dilution of precision is the figure of merit used to determine if a candidate lunar satellite navigation system can meet accuracy specifications based on a given satellite constellation and the measurement types used Ten satellite constellations using two measurement types direct ranging and time difference of arrival are analyzed for numerous user locations on the moon Using terrestrial and Earth orbiting assets to augment the lunar constellations is also investigated Sensitivity analyses are accomplished to determine the effect on the position solution accuracy of additional measurements reduced measurements and different combinations of measurement types

**Dilution-Of-Precision-Based Lunar Surface Navigation System Analysis Utilizing Lunar Orbiters** Bryan W. Welch, Nasa Technical Reports Server (Ntrs), Et Al, 2013-07 The NASA Vision for Space Exploration is focused on the return of astronauts to the Moon Although navigation systems have already been proven in the Apollo missions to the Moon the current exploration campaign will involve more extensive and extended missions requiring new concepts for lunar navigation In contrast to Apollo missions which were limited to the near side equatorial region of the Moon those under the Exploration Systems Initiative will require navigation on the Moon's limb and far side Since these regions have poor Earth visibility a navigation system comprised solely of Earth based tracking stations will not provide adequate navigation solutions in these areas In this report a dilution of precision DoP based analysis of the performance of a network of Moon orbiting satellites is provided This analysis extends a previous analysis of a lunar network LN of navigation satellites by providing an assessment of the capability associated with a variety of assumptions These assumptions pertain to the minimum surface user elevation angle and a total single satellite failure in the lunar network The assessment is accomplished by making appropriately formed estimates of DoP Different adaptations of DoP such as geometric DoP and positional DoP GDoP and PDoP are associated with a different set of assumptions regarding augmentations to the navigation receiver or transceiver

**A Software-Defined GPS and Galileo Receiver** Kai Borre,Dennis M. Akos,Nicolaj Bertelsen,Peter Rinder,Søren Holdt Jensen,2007-08-03 This book explore the use of new technologies in the area of satellite navigation receivers In order to construct a reconfigurable receiver with a wide range of applications the authors discuss receiver architecture based on software defined radio techniques The presentation unfolds in a user friendly style and goes from the basics to cutting edge research The book is aimed at applied mathematicians electrical engineers geodesists and graduate students It may be used as a textbook in various GPS technology and signal processing courses or as a self study reference for anyone working with satellite navigation receivers

**Precision Agriculture Basics** D. Kent Shannon,David E. Clay,Newell R. Kitchen,2020-01-22 With the growing popularity and availability of precision equipment farmers and producers have access to more data than ever before With proper implementation precision agriculture management can improve profitability and sustainability of production Precision Agriculture Basics is geared at students crop consultants farmers extension workers and practitioners that are interested in practical applications of site specific agricultural management Using a multidisciplinary approach readers are taught to make data driven on farm decisions using the most current knowledge and tools in crop science agricultural engineering and geostatistics Precision Agriculture Basics also features a stunning video glossary including interviews with agronomists on the job and in the field

**American Practical Navigator** Nathaniel Bowditch,1995

1995, סדור שלם תפלת ישורון החדש

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