

Distance Measurement

Jean M. Rüeger

An Introduction to Distance Measurement in Astronomy Richard de Grijs, 2011-09-26 Distance determination is an essential technique in astronomy, and is briefly covered in most textbooks on astrophysics and cosmology. It is rarely covered as a coherent topic in its own right. When it is discussed the approach is frequently very dry, splitting the teaching into, for example, stars, galaxies and cosmologies, and as a consequence, books lack depth and are rarely comprehensive. Adopting a unique and engaging approach to the subject *An Introduction to distance Measurement in Astronomy* will take the reader on a journey from the solar neighbourhood to the edge of the Universe, discussing the range of distance measurements methods on the way. The book will focus on the physical processes discussing properties that underlie each method, rather than just presenting a collection of techniques. As well as providing the most compressive account of distance measurements to date, the book will use the common theme of distance measurement to impart basic concepts relevant to a wide variety of areas in astronomy/astrophysics. The book will provide an updated account of the progress made in a large number of subfields in astrophysics, leading to improved distance estimates particularly focusing on the underlying physics. Additionally it will illustrate the pitfalls in these areas and discuss the impact of the remaining uncertainties in the complete understanding of the Universes at large. As a result the book will not only provide a comprehensive study of distance measurement, but also include many recent advances in astrophysics.

Electronic Distance Measurement Jean M. Rüeger, 2012-12-06 The book has evolved from the author's continuing teaching of the subject and from two editions of a text of the same title. The first edition was published in 1978 by the School of Surveying, University of New South Wales, Sydney, Australia. Like its predecessors, this totally revised third edition is designed to make the subject matter more readily available to students proceeding to degrees in Surveying and related fields. At the same time, it is a comprehensive reference book for all surveyors as well as for other professionals and scientists who use electronic distance measurement as a measuring tool. Great emphasis is placed on the understanding of measurement principles and on proper reduction and calibration procedures. It comprises an extensive collection of essential formulae, useful tables and numerous literature references. After a review of the history of EDM instruments in Chapter 1, some fundamental laws of physics and units relevant to EDM are revised in Chapter 2. Chapter 3 discusses the principles and applications of the pulse method, the phase difference method, the Doppler technique and includes an expanded section on interferometers. The basic working principles of electro-optical and microwave distance meters are presented in Chapter 4, with special emphasis on modulation/demodulation techniques and phase measurement systems. Important properties of infrared emitting and lasing diodes are discussed.

Optical Distance Measurement James Raymond Smith, 1970

Position Sensing Hans Walcher, 2014-05-12 *Position Sensing: Angle and Distance Measurement for Engineers* focuses on the electrical measurement of angles and distances. The publication first elaborates on industrial principles and sensors and measurement systems. Discussions focus on measurement technology, terms used in information technology, methods of measurement, analogue angle and displacement sensors, features of processes using a digital-incremental measurement base, electromechanical position sensing systems, and capacitive scanning. Carrier frequency scanning, electromagnetic pulse generator, photoelectric position sensing systems, distance measurement by the pulse-time delay method, laser gyroscope, and systems with analogue measurement and subsequent analogue-to-digital conversion are also discussed. The manuscript then examines intelligent sensors and connection of measurement systems. Topics cover electrical couplings for fine and coarse measurement systems, mechanical links for converting longitudinal to angular motion, general properties of intelligent sensors, and interconnection of intelligent sensors. The text is highly recommended for mechanical engineers and measurement and control technicians.

Measuring the Universe Stephen Webb, 1999-03-18 Recounts the mathematical reasoning which was used to calculate first the size of the earth, then the solar system, and so on up to the universe.

Electromagnetic Distance Measurement International Association of Geodesy, 1967-12-15 Electromagnetic distance measurement, by using light and microwaves for direct linear measurements and thus circumventing the need for traditional methods of triangulation, may well introduce a new era in surveying. This book brings together the work of forty-eight geodesists from twenty-five countries. They discuss various new EDM instruments—among them the Tellurometer, Geodimeter, and air- and satellite-borne systems—and investigate the complex sources of error. The book is therefore a unique and comprehensive source on the subject. UNESCO and R.I.C.S. have assisted financially in its production.

Introduction to Electronic Distance Measurement J.M. Rüeger, 1982

Measuring Distance Martha E. H. Rustad, 2019 Is it near or is it far? Use a measuring tool to measure the distance. From inches to miles, learn about distance and become a measuring master.

Distance Chris Woodford, 2012-08-01 Explains what distance is and how it can be measured.

Electromagnetic Distance Measurement Clifford Donald Burnside, 1982

An Analysis of Temperature-induced Errors for an Ultrasound Distance Measuring System David Paul Wenger, 1991

Distance Measurements in Biological Systems by EPR Lawrence J. Berliner, Sandra S. Eaton, Gareth R. Eaton, 2006-02-20 Distance measurements in biological systems by EPR The foundation for understanding function and dynamics of biological systems is knowledge of their structure. Many experimental methodologies are used for determination of structure, each with special utility. Volumes in this series on Biological Magnetic Resonance emphasize the methods that involve magnetic resonance. This volume seeks to provide a critical evaluation of EPR methods for determining the distances between two unpaired electrons. The editors invited the authors to make this a very practical book, with specific numerical examples of how experimental data is worked up to produce a distance estimate, and realistic assessments of uncertainties and of the range of applicability, along with examples of the power of the technique to answer biological problems. The first chapter is an overview, by two of the editors, of EPR methods to determine distances, with a focus on the range of applicability. The next chapter, also by the Editors, reviews what is known about electron spin relaxation times that are needed in estimating distances between spins or in selecting appropriate temperatures for particular experiments. Albert Beth and Eric Hustedt describe the information about spin-spin interaction that one can obtain by simulating CW EPR line shapes of nitroxyl radicals. The information in fluid solution CW EPR spectra of dual-spin labeled proteins is illustrated by Hassane Mchaourab and Eduardo Perozo.

Development of a Microwave Modulated, Dual Optical Wavelength Geodetic Distance-measuring Instrument J. C. Owens, K. B. Earnshaw, 1968 The accuracy of optical distance measurements on horizontal paths is limited at present to several parts per million by uncertainty in knowledge of the average air density along the path. This report describes the development and testing of a prototype instrument capable of significantly greater accuracy, probably as high as 0.1 ppm. The instrument makes simultaneous measurements of transit time using two superimposed beams of light which have different optical wavelengths but which are modulated at a common microwave frequency. From the difference in transit times for the two colors, plus the absolute transit for either one, the average refractive index along the path and hence the true geodetic path length can be determined. Tests over a 5.3 -km path have given a standard error of 0.3 ppm in corrected distance, and it is believed that even better results can be obtained. The system is described in detail, including modifications that would significantly increase its accuracy and range.

Introduction to electronic distance measurement J. M. Rueger, 1978

A Single-Valued Neutrosophic Linguistic Combined Weighted Distance Measure and Its Application in Multiple-Attribute Group Decision-Making Chengdong Cao, Shouzhen Zeng, Dandan Luo, The aim of this paper is to present a multiple-attribute group decision-making (MAGDM) framework based on a new single-valued neutrosophic linguistic (SVNL) distance measure. By unifying the idea of the weighted average and ordered weighted averaging into a single-valued neutrosophic linguistic distance, we first developed a new SVNL weighted distance measure, namely a SVNL combined and weighted distance (SVNLCWD) measure. The focal characteristics of the devised SVNLCWD are its ability to combine both the decision-makers' attitudes toward the importance, as well as the weights, of the arguments. Various desirable properties and families of the developed SVNLCWD were contemplated. Moreover, a MAGDM approach based on the SVNLCWD was formulated. Lastly, a real numerical example concerning a low-carbon supplier selection problem was used to describe the superiority and feasibility of the developed approach.

Natural Wonders of the World Kerri O'Donnell, 2010-01-01 This book explores some of the world's most famous natural wonders, explaining measurements in the U.S. customary system and the metric system.

Electromagnetic Distance Measurement Clifford D. Burnside, 1971 For engineers, land surveyors and hydrographers.

Distance Measurements in Biological Systems by EPR Lawrence Berliner, Sandra S. Eaton, Gareth R. Eaton, 2001-03-31 Distance measurements in biological systems by EPR The foundation for understanding function and dynamics of biological systems is knowledge of their structure. Many experimental methodologies are used for determination of structure, each with special utility. Volumes in this series on Biological Magnetic Resonance emphasize the methods that involve magnetic resonance. This volume seeks to provide a critical evaluation of EPR methods for determining the distances between two unpaired electrons. The editors invited the authors to make this a very practical book, with specific numerical examples of how experimental data is worked up to produce a distance estimate, and realistic assessments of uncertainties and of the range of applicability, along with examples of the power of the technique to answer biological problems. The first chapter is an overview, by two of the editors, of EPR methods to determine distances, with a focus on the range of applicability. The next chapter, also by the Editors, reviews what is known about electron spin relaxation times that are needed in estimating distances between spins or in selecting appropriate temperatures for particular experiments. Albert Beth and Eric Hustedt describe the information about spin-spin interaction that one can obtain by simulating CW EPR line shapes of nitroxyl radicals. The information in fluid solution CW EPR spectra of dual-spin labeled proteins is illustrated by Hassane Mchaourab and Eduardo Perozo.

Final Report and Operations Manual for Microwave Modulated, Dual Optical Distance-measuring Instrument K. B. Earnshaw, G. M. B. Bouricius, K. P. Moran, 1975

Surveyor's Guide to Electromagnetic Distance Measurement Canadian Institute of Surveying, 1967

In a global driven by information and connectivity, the energy of words has become more evident than ever. They have the capability to inspire, provoke, and ignite change. Such is the essence of the book **Distance Measurement**, a literary masterpiece that delves deep to the significance of words and their effect on our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall affect readers.

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A Soldier's Story (1984) Alone, far from home, and far from justice, he has three days to learn the truth about a murder...and the truth is a story you won't forget. A Soldier's Story Captured and convicted of various crimes against the State, he spent much of the 1970s in prison, escaping twice. After each escape, he went underground and ... A Soldier's Play The story takes place at the United States Army's Fort Neal, Louisiana, in 1944 during the time when the military was racially segregated. In the opening scene, ... A Soldier's Story A black Army investigator (Howard E. Rollins Jr.) travels to a remote military base in the heart of the Louisiana backwoods to look into the mysterious murder ... Watch A Soldier's Story Prime Video When a sergeant of an all-black unit in Louisiana during WWII is murdered, an Army lawyer investigates if the crime was an act of extreme white bigotry or ... 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