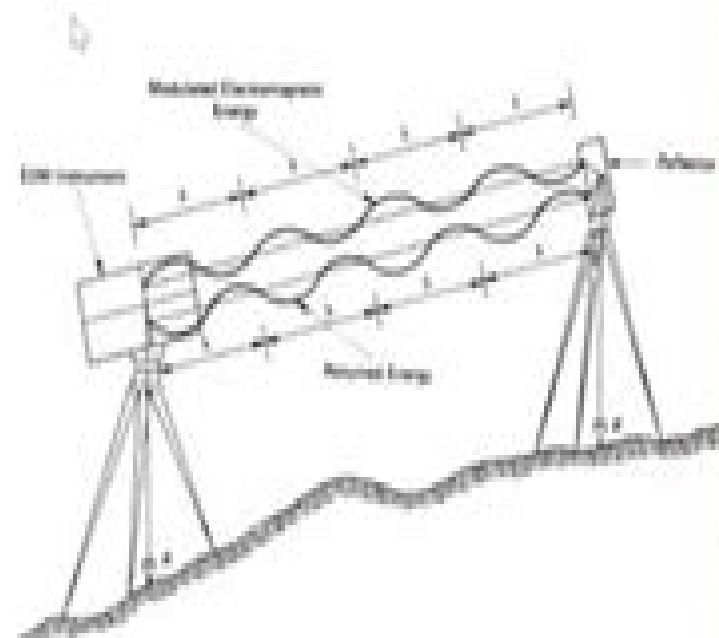




- Distances are measured by EDM device
- An EDM device consists of: (i) an emitter, (ii) a prism reflector and (iii) a receiver
- Emitter and receiver are built-in components of the telescope
- The emitter operates in the certain range of the **electromagnetic waves**
- Thus EDM totally related with emission, propagation, reception and reflection, and subsequent reception of some kind of electromagnetic wave



Electromagnetic Distance Measurement

Fritz Deumlich



Electromagnetic Distance Measurement:

Electronic Distance Measurement Jean M. Rüeger, 2012-12-06 As the basic principles of EDM instruments have changed little since the third edition of 1990 there was no need for significant changes This edition differs from its predecessor in that it contains corrections of a number of errors and misprints totally revised tables in Appendices D E and F and a new note in Section 2 4 3 on the introduction of the new temperature scale in 1990 The author is indebted to the many readers who reported the many small errors and misprints T Black H Buchanan R Da Col R Kochle P H Lam 1 Nolton 1 R Pollard and A Quade were particularly helpful All known errors have been corrected The assistance provided by most manufacturers or their agents with the updating of the tables with the instrument data was greatly appreciated Sydney February 1996 1 M RUEGER v Preface 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

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

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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

Surveying Instruments Fritz Deumlich, 1982 No detailed description available for Surveying Instruments

Higher Surveying A. M. Chandra, 2005 This Book Presents A Systematic And Contemporary Treatment Of The Theory And Applications Involved In Higher Surveying It Also Highlights Some Of The Modern Developments In Geomatics After Explaining The Basic Survey Operations Triangulation And Trilateration The Book Describes The Various Adjustment Methods Applied To Survey Measurement In Detail Which Is Followed By Topographic Hydrographic Construction And Route Surveying As Engineers And Surveyors Need Knowledge Of Determining Absolute Coordinates Of Points And Directions Of Lines On The Earth'S Surface A Detailed Discussion On Field Astronomy Is Presented In This Book A Chapter On Map Projection Is Also Included In The Book Recent Advances In Land Surveying Are Then Highlighted Including Photogrammetry And Photographic Interpretation Remote Sensing Technique Utilizing Data Acquired Through Satellites Is Also Explained Recent Instrumentation Techniques And Methodologies Being Used In Geomatics Are Emphasized These Cover A Range Of Modern Instruments Including Edm Total Station Laser Based Instruments Electronic Field Book Gps Automated Photogrammetric Systems And Geographic Information System A Large Number Of Worked Out Examples Illustrations And Photographs Are Included For An Easy Grasp Of The Concepts The Book Would Serve As An Excellent Text For Civil Engineering Students Amie Candidates And Surveyors Practicing Engineers Would Also Find It Extremely Useful In Their Profession

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prove to be a valuable reference for practitioners **Surveying** B. C. Punmia, 2005 **Proceedings of the International Symposium on Electromagnetic Distance Measurement and the Influence of Atmospheric Refraction, Held Under the Auspices of the International Association of Geodesy at Wageningen, The Netherlands, May 23-28, 1977** Peter Richardus, 1978 Glossary of the Mapping Sciences American Society of Civil Engineers, 1994-01-01 The Glossary of Mapping Sciences a joint publication of the American Congress on Surveying and Mapping ACSM American Society for Photogrammetry and Remote Sensing ASPRS and American Society of Civil Engineers ASCE contains approximately 10 000 terms that cover the broad professional areas of surveying mapping and remote sensing Based on over 150 sources this glossary went through an extensive review process that included individual experts from the related subject fields and a variety of U S federal agencies such as the U S Geological Survey This comprehensive review process helped to ensure the accuracy of the document The Glossary of Mapping Sciences will find widespread use throughout the related professions and serve as a vehicle to standardize the terminology of the mapping sciences **Advanced Surveying** Satheesh Gopi, Gopi, 2007 *ELECTROMAGNETIC DISTANCE MEASUREMENT- PROCEEDINGS OF A SYMPOSIUM- INTERNATIONAL ASSOCIATION OF GEODESY. , **Urban Surveying and Mapping** T. J. Blachut, A. Chrzanowski, J. H. Saastamoinen, 2012-12-06 The idea of writing a textbook on urban surveying and mapping originated with the Commission on Cartography of the Pan American Institute of Geography and History PAIGH because of the urgent need for planned and integrated surveying and mapping in urban communities of the American Hemisphere It is obvious however that with the exception of some European countries the same situation exists in most cities of the world The undersigned was asked to undertake the task The task was not simple The only available comprehensive text in the field 1 is Geodezja Miejska which was published recently in Poland and reached the authors only after most of the present text was written It is tailored to a very specific market and different requirements Although it is an impressive book it differs vastly from our own approach Other reference texts are fragmentary or obsolete During the last two decades revolutionary changes have occurred in surveying and mapping technology which have had a profound effect on actual procedures In addition the traditional concepts of urban surveying and mapping are undergoing rapid evolution It is recognized that administration and planning require a great variety of continuously updated information which must be correlated with the actual physical fabric of the community as determined by surveying and mapping Modern urban surveying and mapping is therefore the foundation of the broad and dynamic information system that is indispensable in any rational municipal effort*

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