

1. Record Nr.	UNINA9910789208203321
Autore	Rüeger Jean M
Titolo	Electronic Distance Measurement [[electronic resource]] : An Introduction / / by Jean M. Rüeger
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 1996
ISBN	3-642-80233-8
Edizione	[4th ed. 1996.]
Descrizione fisica	1 online resource (XIX, 276 p.)
Disciplina	526/.028
Soggetti	Geophysics Geographical information systems Solid state physics Spectroscopy Microscopy Geophysics/Geodesy Geographical Information Systems/Cartography Solid State Physics Spectroscopy and Microscopy
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"With 56 Figures and 18 Tables."
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	1 History -- 2 Physical Laws and Units Related to EDM -- 2.1 Definitions -- 2.2 Frequency Spectrum -- 2.3 Velocity of Light in a Vacuum -- 2.4 Units and Their Definitions -- 3 Principles and Applications of EDM -- 3.1 Pulse Method -- 3.2 Phase Difference Method -- 3.3 Doppler Methods -- 3.4 Interferometry -- 4 Basic Working Principles of Electronic Distance Meters -- 4.1 Electro-Optical Instruments -- 4.2 Microwave Instruments -- 5 Propagation of Electromagnetic Waves Through the Atmosphere -- 5.1 Atmospheric Transmittance -- 5.2 Range of EDM Instruments -- 5.3 Phase Refractive Index -- 5.4 Group Refractive Index of Light and NIR Waves for Standard Conditions -- 5.5 Group Refractive Index of Light and NIR Waves at Ambient Conditions -- 5.6 Refractive Index of Microwaves -- 5.7 Coefficient of Refraction -- 5.8 Measurement of Atmospheric Parameters -- 5.9 Determination of the Refractive Index -- 6 Velocity

Corrections to Measured Distances -- 6.1 Reference Refractive Index --
 6.2 First Velocity Correction -- 6.3 Real-Time Application of First
 Velocity Correction by EDM Instrument -- 6.4 Second Velocity
 Correction -- 6.5 Refined Method of Reduction of Measured Distance to
 Wave Path Chord -- 7 Geometrical Corrections -- 7.1 Reduction to the
 Spheroid Using Station Heights -- 7.2 Reduction to the Spheroid, Using
 Measured Zenith Angles -- 8 Miscellaneous Corrections, Computations
 and Numerical Examples -- 8.1 Correction of Measured Distance to
 Zenith Angle Ray Path -- 8.2 Eye-to-Object Corrections for Zenith
 Angles and Distances -- 8.3 Height Difference from Measured Zenith
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 -- 11.2 Batteries Used in EDM -- 11.3 Sealed Nickel-Cadmium
 Batteries -- 12 Errors of Electro-Optical Distance Meters -- 12.1
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 12.4 Non-Linear Distance-Dependent Errors -- 12.5 Summary and
 Mathematical Model of Errors -- 13 Calibration of Electro-Optical
 Distance Meters -- 13.1 Introduction -- 13.2 Calibration on EDM
 Baselines -- 13.3 Calibration on Cyclic Error Testlines -- 13.4
 Calibration of Modulation Frequency -- 13.5 Accuracy Specifications of
 EDM Instruments -- Appendices -- A. First Velocity Correction for
 Precise Electro-Optical Distance Measurement -- B. Tables of
 Saturation Water Vapour Pressures -- C. Parameters of the ICAO
 Standard Atmosphere -- D. Data of a Selection of Electro-Optical
 Distance Meters as Required for the Derivation of the First Velocity
 Correction and for Calibration Purposes -- E. Technical Data of a
 Selection of Short Range Distance Meters -- F. Technical Data of a
 Selection of Pulse Distance Meters -- G. Technical Data of a Selection of
 Long Range Distance Meters -- H. Critical Dimensions of a Selection of
 Reflectors -- References.

Sommario/riassunto

Electronic Distance Measurement This text gives an up-to-date
 introduction into electronic distance measurement (EDM) with a
 comprehensive review of modern equipment and procedures. It is
 excellently suited as a text for undergraduate and graduate students
 and an invaluable reference for practicing surveyors, geodesists and
 other scientists using EDM as a measuring tool. This fourth edition of a
 text first published in Sydney in 1978 is based on Rüeger's teaching
 experience at the University of New South Wales in Sydney, Australia.
 Introductory chapters provide an overview of relevant laws of physics
 and basic principles of different types of EDM instruments. The
 following chapters examine velocity corrections, derive geometrical
 reductions from first principles and explain the design of state-of-the-
 art electro-optical distance meters. The final chapters introduce
 reflectors, power sources and instrument errors, and conclude with
 measurement and analysis procedures for the calibration of distance
 meters.

2. Record Nr.	UNINA9910808738103321
Autore	Weintraub Steven H.
Titolo	A guide to advanced linear algebra // Steven H. Weintraub [[electronic resource]]
Pubbl/distr/stampa	Washington : , : Mathematical Association of America, , 2011
ISBN	0-88385-967-X
Descrizione fisica	1 online resource (xii, 251 pages) : digital, PDF file(s)
Collana	Dolciani Mathematical Expositions, ; v. 44 Dolciani mathematical expositions ; ; no. 44 MAA guides ; ; no. 6
Disciplina	516.3/55
Soggetti	Algebras, Linear
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Title from publisher's bibliographic system (viewed on 02 Oct 2015).
Nota di bibliografia	Includes bibliographical references (p. 245) and index.
Nota di contenuto	Vector spaces and linear transformations -- Coordinates -- Determinants -- The structure of a linear transformation I -- The structure of a linear transformation II -- Bilinear, sesquilinear, and quadratic forms -- Real and complex inner product spaces -- Matrix groups as Lie groups -- Polynomials -- Modules over principal ideal domains.
Sommario/riassunto	Linear algebra occupies a central place in modern mathematics. This book provides a rigorous and thorough development of linear algebra at an advanced level, and is directed at graduate students and professional mathematicians. It approaches linear algebra from an algebraic point of view, but its selection of topics is governed not only for their importance in linear algebra itself, but also for their applications throughout mathematics. Students in algebra, analysis, and topology will find much of interest and use to them, and the careful treatment and breadth of subject matter will make this book a valuable reference for mathematicians throughout their professional lives. Topics treated in this book include: vector spaces and linear transformations; dimension counting and applications; representation of linear transformations by matrices; duality; determinants and their uses; rational and especially Jordan canonical form; bilinear forms; inner product spaces; normal linear transformations and the spectral theorem; and an introduction to matrix groups as Lie groups. The

book treats vector spaces in full generality, though it concentrates on the finite dimensional case. Also, it treats vector spaces over arbitrary fields, specializing to algebraically closed fields or to the fields of real and complex numbers as necessary.

3. Record Nr.	UNIORUON00381567
Autore	MACGREGOR, David R.
Titolo	The Communist ideal in Hegel and Marx / David MacGregor - London ; Sidney : Allen & Unwin, c1984 - VIII, 312 p. ; 24 cm
ISBN	00-490-9016-X
Disciplina	320.532
Soggetti	COMUNISMO - Principi HEGEL GEORG WILHELM FRIEDRICH - Concezione politica Marx Karl (1818-1883)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia