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Algebraic Geodesy and Geoinformatics

2nd Ed.



 Springer

Algebraic Geodesy And Geoinformatics

Joseph L. Awange, John B. Kyalo Kiema



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Algebraic Geodesy and Geoinformatics Joseph L. Awange, Erik W. Grafarend, Béla Paláncz, Pirooska Zaletnyik, 2010-05-27 While preparing and teaching Introduction to Geodesy I and II to undergraduate students at Stuttgart University we noticed a gap which motivated the writing of the present book Almost every topic that we taught required some skills in algebra and in particular computer algebra From positioning to transformation problems inherent in geodesy and geoinformatics knowledge of algebra and application of computer algebra software were required In preparing this book therefore we have attempted to put together basic concepts of abstract algebra which underpin the techniques for solving algebraic problems Algebraic computational algorithms useful for solving problems which require exact solutions to nonlinear systems of equations are presented and tested on various problems Though the present book focuses mainly on the two elds the concepts and techniques presented herein are nonetheless applicable to other elds where algebraic computational problems might be encountered In Engineering for example network densi cation and robotics apply resection and intersection techniques which require algebraic solutions Solution of nonlinear systems of equations is an indispensable task in almost all geosciences such as geodesy geoinformatics geophysics just to mention but a few as well as robotics These equations which require exact solutions underpin the operations of ranging resection intersection and other techniques that are normally used Examples of problems that require exact solutions include three dimensional resection problem for determining positions and orientation of sensors e g camera theodolites robots scanners etc

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Solving Algebraic Computational Problems in Geodesy and Geoinformatics Joseph L. Awange, Erik W. Grafarend, 2005-08-29 While preparing and teaching Introduction to Geodesy I and II to undergraduate students at Stuttgart University we noticed a gap which motivated the writing of the present book Almost every topic that we taught required some skills in algebra and in particular computer algebra From positioning to transformation problems inherent in geodesy and geoinformatics knowledge of algebra and application of computer algebra software were required In preparing this book therefore we have attempted to put together basic concepts of abstract algebra which underpin the techniques for solving algebraic problems Algebraic computational algorithms useful for solving problems which require exact solutions to nonlinear systems of equations are presented and tested on various problems Though the present book focuses mainly on the two elds the concepts and techniques presented herein are nonetheless applicable to other elds where algebraic computational problems might be encountered In Engineering for example network densi cation and robotics apply resection and intersection techniques which require algebraic solutions Solution of nonlinear systems of equations is an indispensable task in almost all geosciences such as geodesy geoinformatics geophysics just to mention but a few as well as robotics These equations which require exact solutions underpin the operations of ranging resection intersection and other techniques that are normally used Examples of

problems that require exact solutions include three dimensional resection problem for determining positions and orientation of sensors e g camera theodolites robots scanners etc VIII Preface coordinate transformation to match shapes and sizes of points in different systems mapping from topography to reference ellipsoid and analytical determination of refraction angles in GPS meteorology

Geospatial Algebraic Computations Joseph Awange, Béla Paláncz, 2016-01-29 Improved geospatial instrumentation and technology such as in laser scanning has now resulted in millions of data being collected e g point clouds It is in realization that such huge amount of data requires efficient and robust mathematical solutions that this third edition of the book extends the second edition by introducing three new chapters Robust parameter estimation Multiobjective optimization and Symbolic regression Furthermore the linear homotopy chapter is expanded to include nonlinear homotopy These disciplines are discussed first in the theoretical part of the book before illustrating their geospatial applications in the applications chapters where numerous numerical examples are presented The renewed electronic supplement contains these new theoretical and practical topics with the corresponding Mathematica statements and functions supporting their computations introduced and applied This third edition is renamed in light of these technological advancements

Trends in Geomatics Rifaat Abdalla, 2019-02-20 The applications of geomatics technology in its broader context have resulted in significant progress in the field of earth science This book provides brief coverage on some trends in geomatics technology as it relates to earth scientists The development in geomatics whether GIS remote sensing GPS or photogrammetry can be seen from trends in the applications of Big Data Smart City Internet of Things IoT the use of augmented reality and utilization of unmanned aerial vehicles UAVs and in the impact of machine learning and AI on geomatics

Environmental Geoinformatics Joseph L. Awange, John B. Kyalo Kiema, 2013-06-13 There is no doubt that today perhaps more than ever before humanity faces a myriad of complex and demanding challenges These include natural resource depletion and environmental degradation food and water insecurity energy shortages diminishing biodiversity increasing losses from natural disasters and climate change with its associated potentially devastating consequences such as rising sea levels These human induced and natural impacts on the environment need to be well understood in order to develop informed policies decisions and remedial measures to mitigate current and future negative impacts To achieve this continuous monitoring and management of the environment to acquire data that can be soundly and rigorously analyzed to provide information about its current state and changing patterns and thereby allow predictions of possible future impacts are essential Developing pragmatic and sustainable solutions to address these and many other similar challenges requires the use of geodata and the application of geoinformatics This book presents the concepts and applications of geoinformatics a multidisciplinary field that has at its core different technologies that support the acquisition analysis and visualization of geodata for environmental monitoring and management We depart from the 4D to the 5D data paradigm which defines geodata accurately consistently rapidly and completely in order to be useful without any restrictions in space time or scale to represent a truly global

dimension of the digital Earth The book also features the state of the art discussion of Web GIS The concepts and applications of geoinformatics presented in this book will be of benefit to decision makers across a wide range of fields including those at environmental agencies in the emergency services public health and epidemiology crime mapping environmental management agencies tourist industry market analysis and e commerce or mineral exploration among many others The title and subtitle of this textbook convey a distinct message Monitoring the passive part in the subtitle refers to observation and data acquisition whereas management the active component stands for operation and performance The topic is our environment which is intimately related to geoinformatics The overall message is all the mentioned elements do interact and must not be separated Hans Peter Bahr Prof Dr Ing Dr h c Karlsruhe Institute of Technology KIT Germany

Mathematical Geosciences Joseph L. Awange, Béla Paláncz, Robert H. Lewis, Lajos Völgyesi, 2018-01-29 This book showcases powerful new hybrid methods that combine numerical and symbolic algorithms Hybrid algorithm research is currently one of the most promising directions in the context of geosciences mathematics and computer mathematics in general One important topic addressed here with a broad range of applications is the solution of multivariate polynomial systems by means of resultants and Groebner bases But that's barely the beginning as the authors proceed to discuss genetic algorithms integer programming symbolic regression parallel computing and many other topics The book is strictly goal oriented focusing on the solution of fundamental problems in the geosciences such as positioning and point cloud problems As such at no point does it discuss purely theoretical mathematics The book delivers hybrid symbolic numeric solutions which are a large and growing area at the boundary of mathematics and computer science Dr Daniel Lichtbau **Mathematical Software -- ICMS 2014** Hoon Hong, Chee Yap, 2014-08-01 This book constitutes the proceedings of the 4th International Conference on Mathematical Software ICMS 2014 held in Seoul South Korea in August 2014 The 108 papers included in this volume were carefully reviewed and selected from 150 submissions The papers are organized in topical sections named invited exploration group coding topology algebraic geometry surfaces reasoning special Groebner triangular parametric interfaces and general **Environmental Geoinformatics** Joseph Awange, John Kiema, 2018-12-08 This second edition includes updated chapters from the first edition as well as five additional new chapters Light detection and ranging LiDAR CORONA historical declassified products Unmanned Aircraft Vehicles UAVs GNSS reflectometry and GNSS applications to climate variability shifting the main focus from monitoring and management to extreme hydro climatic and food security challenges and exploiting big data Since the publication of first edition much has changed in terms of technology and the demand for geospatial data has increased with the advent of the big data era For instance the use of laser scanning has advanced so much that it is unavoidable in most environmental monitoring tasks whereas unmanned aircraft vehicles UAVs drones are emerging as efficient tools that address food security issues as well as many other contemporary challenges Furthermore global navigation satellite systems GNSS are now responding to challenges posed by climate change by

unravelling the impacts of teleconnection e g ENSO as well as advancing the use of reflected signals GNSS reflectometry to monitor e g soil moisture variations Indeed all these rely on the explosive use of big data in many fields of human endeavour Moreover with the ever increasing global population intense pressure is being exerted on the Earth s resources leading to significant changes in its land cover e g deforestation diminishing biodiversity and natural habitats dwindling fresh water supplies and changing weather and climatic patterns e g global warming changing sea level Environmental monitoring techniques that provide information on these are under scrutiny from an increasingly environmentally conscious society that demands the efficient delivery of such information at a minimal cost Environmental changes vary both spatially and temporally thereby putting pressure on traditional methods of data acquisition some of which are highly labour intensive such as animal tracking for conservation purposes With these challenges conventional monitoring techniques particularly those that record spatial changes call for more sophisticated approaches that deliver the necessary information at an affordable cost One direction being pursued in the development of such techniques involves environmental geoinformatics which can act as a stand alone method or complement traditional methods

Geometric Algebra Computing Eduardo Bayro-Corrochano, Gerik Scheuermann, 2010-05-19 This useful text offers new insights and solutions for the development of theorems algorithms and advanced methods for real time applications across a range of disciplines Its accessible style is enhanced by examples figures and experimental analysis

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