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Algebraic Geodesy and Geoinformatics

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Algebraic Geodesy And Geoinformatics

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Algebraic Geodesy and Geoinformatics Joseph L. Awange, Erik W. Grafarend, Béla Paláncz, Piroska 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

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

Environmental Project Management Ebenezer A. Sholarin, Joseph L. Awange, 2016-04-22 This book offers a new framework that facilitates the development of more intelligent systems and methods for data analysis and international information sharing such as the use of satellite imaging and geospatial data to predict changes in weather conditions and shifts in water levels and to assess the extent of the forest cover remaining on Earth that is visible from space It brings together the many aspects of science and technology as well as formula and analytical approaches required for more informed decision making It also highlights the vital importance of understanding the technological economic and social dimensions of environmental projects that have short term results and long term impacts It is unique in that it clearly distinguishes between environmental project management EnvPM and green project management GreenPM and presents an amalgamation of environmental management and project management concepts using geospatial methods to form an EnvPM concept The book sets a benchmark for the professionalism with which environmental projects should be planned executed monitored assessed and delivered While primarily intended for professionals responsible for the management of environmental projects or interested in improving the overall efficiency of such projects it is also a useful handbook for managers in the private public and non for profit sectors It is a valuable resource for students at both undergraduate and master s levels and an indispensable guide for anyone wanting to develop their skills in modern project management environmental management and geospatial techniques We are the first generation to feel the impact of climate change and the last generation that can do something about it US President Obama s address to the United Nations on Climate Change and Global warming 2015 hison This book provides an in depth well researched and science based approach to applying key project management and spatial tools and practices in environmental projects An important read for leaders considering projects that balance social economic growth against minimising its ill effects on Planet Earth Todd Hutchison Global Chairman of Peopleistic group

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