

Environmental Science

Joseph L. Awange

Environmental Monitoring using GNSS

Global Navigation Satellite Systems

 Springer

Environmental Monitoring Using Gns Global Navigation Satellite Systems Environmental Science And Engineering

Mr. Rohit Manglik



Environmental Monitoring Using Gns Global Navigation Satellite Systems Environmental Science And Engineering:

Environmental Monitoring using GNSS Joseph L. Awange, 2012-05-15 Global Navigation Satellite Systems GNSS are revolutionizing the world in a way their original developers never envisaged From being military war tools GNSS satellites are rapidly becoming peace tools that play a potentially critical role in enabling changing environmental phenomenon that do not permit direct measurements to be remotely observed via their all weather highly accurate and continuously updatable positional time series This is evident for example in their use in emerging environmental monitoring methods that are considered in this book These include GPS based radio telemetry which is enhancing ecological and conservation monitoring by more accurately mapping animal movements their behaviours and their impact on the environment GNSS meteorology which is contributing to weather and climate change studies GNSS remote sensing which for example allows the rapid monitoring of changes in fresh water resources and cryosphere Geosensor network techniques which are earning a crucial role in disaster response management Epidemiology for improved efficiency in tracking and studying the spread of infectious diseases and climate change effects on vector borne diseases and Economics to provide data for the econometric modelling of casual impact of policies In Environmental Impact Assessments EIA Strategic Environmental Assessments SEA and Sustainability Assessments SA GNSS together with other spaced based remote sensing techniques are emerging not only as modern tools that connect the developers to the community but also provide information that support Multi Criteria Analysis MCA methods which inform decision making and policy formulations By bringing the two fields of geodesy the parent of GNSS technology and environmental studies potential users of this technology this book presents the concepts of GNSS in a simplified way that can on the one hand be understood and utilised by environmentalists while on the other outlines its potential applications to environmental monitoring and management for those engaged more with its technology which hopefully will further energise the already innovative research that is being carried out Lastly this book is most relevant to all the professionals whose work is related to the environment such as hydrologists meteorologists epidemiologists economist and engineers to name just a few A comprehensive yet candid and compelling presentation of Global Navigation Satellite Systems and its application to environmental monitoring and a host of other socio economic activities This is an essential and new ground breaking reading for all professional practitioners and even academics seeking to study and become involved in using Global Navigation Satellite Systems in diverse fields ranging from environmental monitoring to economic activities such as monitoring weather and climate in order to design crop failure insurance Nathaniel O Agola Professor of Business and Financial Economics Ritsumeikan University Japan [GNSS Environmental Sensing](#) Joseph Awange, 2017-09-04 This book is the second edition of *Environmental Monitoring using GNSS* and highlights the latest developments in global navigation satellite systems GNSS It features a completely new title and additional chapters that present emerging

challenges to environmental monitoring climate variability change and food insecurity Since the publication of the first edition much has changed in both the development and applications of GNSS a satellite microwave remote sensing technique It is the first tool to span all four dimensions of relevance to humans position navigation timing and the environment and it has widely been used for positioning both by military and civilians navigation and timing Its increasing use is leading to a new era of remote sensing that is now revolutionizing the art of monitoring our environment in ways never imagined before On the one hand nearly all GNSS satellites Global Positioning System GPS Global Navigation Satellite System GLONASS Galileo and Beidou have become operational thereby providing high precision continuous all weather and near real time remote sensing multi signals beneficial to environmental monitoring On the other hand the emerging challenges of precisely monitoring climate change and the demand for the production of sufficient food for ever increasing populations are pushing traditional monitoring methods to their limits In this regard refracted GNSS signals i e occulted GNSS signals or GNSS meteorology are now emerging as sensors of climate variability while the reflected signals GNSS reflectometry or GNSS R are increasingly finding applications in determining e g soil moisture content ice and snow thickness ocean heights and wind speed and direction among others Furthermore the increasing recognition and application of GNSS supported unmanned aircraft vehicles UAV drones in agriculture e g through the determination of water holding capacity of soil highlights the new challenges facing GNSS As such this new edition three new chapters address GNSS reflectometry and applications GNSS sensing of climate variability and the applications in UAV drones Moreover it explores the application of GNSS to support integrated coastal zone management 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 Digital Terrain Analysis, Third Edition Igor Florinsky,2025-01-10 Digital Terrain Analysis Third Edition synthesizes knowledge on methods and applications of digital terrain analysis and geomorphometry in the context of multi scale problems in soil science geology and polar research Divided into four parts the book examines the main concepts principles and methods of digital terrain modeling methods for analysis modeling and mapping of spatial distribution of soil properties techniques for recognition analysis and interpretation of topographically manifested geological features and finally polar research This new release provides a theoretical and methodological basis for understanding and applying geographical modeling techniques Presents an integrated and unified view of digital terrain analysis in both soil science and geology Includes a rigorous description of the mathematical principles of digital terrain analysis Provides both a theoretical and methodological basis for understanding and applying geographical modeling Contain a new section on Digital Terrain Modeling in polar research as well as updated information methods and figures from previous editions **Space Geodesy for Environmental Monitoring Volume** ,2024-08-22 Space Geodesy for Environmental Monitoring Volume Volume 65 in the Advances in Geophysics series highlights new advances in the field with this new volume presenting interesting chapters written by an international board of authors and covering topics such as GNSS for natural hazard mitigation Space Earth Data for Global Sea level change monitoring Current Approaches Challenges and Future Prospects and Crowdsourcing GNSS for geophysical applications Provides the authority and expertise of leading contributors from an international board of authors Presents interesting chapters written by an international board of authors Updated release includes the latest information in the Advances in Geophysics Accuracy of GNSS Methods Dogan Ugur Sanli,2019-01-16 Following the GPS new GNSS techniques are emerging today Various surveying and processing methods are available for the analysis of GNSS data Equipment and software are also varied The orbit quality controlled by the system designer and the IGS are continuously improved The user is mainly interested in the quality of position and of the deformation rates produced by the GNSS Hence research needs to guide the user in terms of selecting the best combination of the available methods and instrumentation to produce the desired accuracy This book reviews the current available accuracy obtainable using the GNSS methods In fact the main aim of this book is to make an impact on young researchers so that they keep updating the accuracy of GNSS for future generations Global Navigation Satellite Systems National Academy of Engineering,2012-04-10 The Global Positioning System GPS has revolutionized the

measurement of position velocity and time It has rapidly evolved into a worldwide utility with more than a billion receiver sets currently in use that provide enormous benefits to humanity improved safety of life increased productivity and wide spread convenience Global Navigation Satellite Systems summarizes the joint workshop on Global Navigation Satellite Systems held jointly by the U S National Academy of Engineering and the Chinese Academy of Engineering on May 24 25 2011 at Hongqiao Guest Hotel in Shanghai China We have one world and only one set of global resources It is important to work together on satellite navigation Competing and cooperation is like Yin and Yang They need to be balanced stated Dr Charles M Vest President of the National Academy of Engineering in the workshop s opening remarks Global Navigation Satellite Systems covers the objectives of the workshop which explore issues of enhanced interoperability and interchangeability for all civil users aimed to consider collaborative efforts for countering the global threat of inadvertent or illegal interference to GNSS signals promotes new applications for GNSS emphasizing productivity safety and environmental protection The workshop featured presentations chosen based on the following criteria they must have relevant engineering technical content or usefulness be of mutual interest offer the opportunity for enhancing GNSS availability accuracy integrity and or continuity and offer the possibility of recommendations for further actions and discussions Global Navigation Satellite Systems is an essential report for engineers workshop attendees policy makers educators and relevant government agencies

Position, Navigation, and Timing Technologies in the 21st Century Y. Jade Morton, Frank van Diggelen, James J. Spilker, Jr., Bradford W. Parkinson, Sherman Lo, Grace Gao, 2021-01-13 Covers the latest developments in PNT technologies including integrated satellite navigation sensor systems and civil applications Featuring sixty four chapters that are divided into six parts this two volume work provides comprehensive coverage of the state of the art in satellite based position navigation and timing PNT technologies and civilian applications It also examines alternative navigation technologies based on other signals of opportunity and sensors and offers a comprehensive treatment on integrated PNT systems for consumer and commercial applications Volume 1 of Position Navigation and Timing Technologies in the 21st Century Integrated Satellite Navigation Sensor Systems and Civil Applications contains three parts and focuses on the satellite navigation systems technologies and engineering and scientific applications It starts with a historical perspective of GPS development and other related PNT development Current global and regional navigation satellite systems GNSS and RNSS their inter operability signal quality monitoring satellite orbit and time synchronization and ground and satellite based augmentation systems are examined Recent progresses in satellite navigation receiver technologies and challenges for operations in multipath rich urban environment in handling spoofing and interference and in ensuring PNT integrity are addressed A section on satellite navigation for engineering and scientific applications finishes off the volume Volume 2 of Position Navigation and Timing Technologies in the 21st Century Integrated Satellite Navigation Sensor Systems and Civil Applications consists of three parts and addresses PNT using alternative signals and sensors and integrated PNT technologies for consumer and

commercial applications It looks at PNT using various radio signals of opportunity atomic clock optical laser magnetic field celestial MEMS and inertial sensors as well as the concept of navigation from Low Earth Orbiting LEO satellites GNSS INS integration neuroscience of navigation and animal navigation are also covered The volume finishes off with a collection of work on contemporary PNT applications such as survey and mobile mapping precision agriculture wearable systems automated driving train control commercial unmanned aircraft systems aviation and navigation in the unique Arctic environment In addition this text Serves as a complete reference and handbook for professionals and students interested in the broad range of PNT subjects Includes chapters that focus on the latest developments in GNSS and other navigation sensors techniques and applications Illustrates interconnecting relationships between various types of technologies in order to assure more protected tough and accurate PNT Position Navigation and Timing Technologies in the 21st Century Integrated Satellite Navigation Sensor Systems and Civil Applications will appeal to all industry professionals researchers and academics involved with the science engineering and applications of position navigation and timing technologies pnt21book com

Handbook of Microplastic Pollution in the Environment Tonni Agustiono Kurniawan, Abdelkader Anouzla, 2025-06-30 In this timely handbook one of a series of three leading contributors from around the world offer practical insights into the challenges and opportunities for using various technologies to tackle microplastic pollution and improve microplastic management in aquatic environments Through this book readers will gain a deep understanding of microplastic pollution in both freshwater and marine environments and strategies and technologies to combat and manage this To provide readers with this knowledge the book is divided into four sections to explain microplastics in freshwater and marine environments and the impact of biofilm on microplastic pollution The contributors first describe the characteristics of microplastics and their identification roles in the pollution of aquatic environments and impacts They also describe microplastics in freshwater and marine environments through the use of case studies from both developing and developed countries from North America Europe Africa and Asia An introduction is provided at the beginning of each chapter for those interested in a brief synopsis and copious references are provided for those wishing to study each chapter topic in greater detail This book furnishes readers with the knowledge to reduce microplastics and prevent their improper disposal which will prevent their intrusion and impact on biodiversity and ecosystems around the world and will also minimize economic losses caused by this emerging pollutant For a wider perspective readers are encouraged to refer to the other two titles in this series subtitled Microplastic Pollution in the Soil and Monitoring and Treatment of Microplastics and Policy Perspectives In its exploration of the relationships among the characteristics of microplastics their mobility transport pathways and treatment this handbook represents a vital practical guide for academics industry based researchers and policymakers that paves the ways for a new direction of water technology for future wastewater treatment

Machine Learning Techniques Applied to Geoscience Information System and Remote Sensing Hyung-Sup Jung, Saro Lee, 2019-09-03 As

computer and space technologies have been developed geoscience information systems GIS and remote sensing RS technologies which deal with the geospatial information have been rapidly maturing Moreover over the last few decades machine learning techniques including artificial neural network ANN deep learning decision tree and support vector machine SVM have been successfully applied to geospatial science and engineering research fields The machine learning techniques have been widely applied to GIS and RS research fields and have recently produced valuable results in the areas of geoscience environment natural hazards and natural resources This book is a collection representing novel contributions detailing machine learning techniques as applied to geoscience information systems and remote sensing

Concurrent Engineering Approaches for Sustainable Product Development in a Multi-Disciplinary Environment Josip Stjepandić, Georg Rock, Cees Bil, 2012-08-10 The CE Conference series is organized annually by the International Society for Productivity Enhancement ISPE and constitutes an important forum for international scientific exchange on concurrent and collaborative enterprise engineering These international conferences attract a significant number of researchers industrialists and students as well as government representatives who are interested in the recent advances in concurrent engineering research and applications Concurrent Engineering Approaches for Sustainable Product Development in a Multi-Disciplinary Environment Proceedings of the 19th ISPE International Conference on Concurrent Engineering contains papers accepted peer reviewed and presented at the annual conference held at the University of Applied Sciences in Trier Germany from 3rd 7th of September 2012 This covers a wide range of cutting edge topics including Systems Engineering and Innovation Design for Sustainability Knowledge Engineering and Management Managing product variety Product Life Cycle Management and Service Engineering Value Engineering

GNSS Monitoring of the Terrestrial Environment Yosuke Aoki, Corné Kreemer, 2024-07-31 GNSS Monitoring of the Terrestrial Environment Earthquakes Volcanoes and Climate Change presents the application of GNSS technologies to natural hazards on Earth The book details the background theory of the GNSS techniques discussed and takes the reader through applications and implementation Tables comparing GNSS with other geodetic techniques such as SAR VLBI SLR and conventional geodetic methods such as strainmeters tiltmeters and leveling surveys are also included The book concludes with a chapter bridging both parts discussing the relationship between earthquakes volcanism and climate change The book is aimed at academics researchers and advanced students working in the fields of remote sensing technologies or natural hazards It is divided into two parts with the first covering the monitoring of earthquakes volcanoes and applications of GNSS signals to better understand earthquakes and volcanism while the second part covers monitoring climate change with GNSS Provides a detailed focus on the utility of GNSS technologies for dealing with natural hazards Details theory and applications of GNSS to natural hazards allowing readers to develop a thorough understanding on the theoretical background as well as practical applications Covers the latest developments in the field along with future perspectives as GNSS technologies are expected to evolve

Soil Mechanics and Subsidence in

Mining Engineering Prof. Dr. Bilal Semih Bozdemir, Soil Mechanics and Subsidence in Mining Engineering Introduction to Soil Mechanics Soil Composition and Structure Soil Classification Systems Stress Strain Behavior of Soils Shear Strength of Soils Mohr Coulomb Failure Criterion Effective Stress Principle Soil Compaction and Compressibility Consolidation Theory Primary and Secondary Consolidation Settlement Calculations Bearing Capacity of Soils Shallow and Deep Foundations Lateral Earth Pressures Retaining Wall Design Soil Exploration and Site Investigation Sampling Techniques and Methods In Situ Testing SPT CPT Vane Shear Laboratory Testing of Soil Samples Groundwater and Seepage Analysis Darcy's Law and Permeability Seepage Forces and Uplift Pressures Dewatering Techniques in Mining Slope Stability Analysis Infinite Slope and Circular Failure Planar and Wedge Failure Modes Soil Reinforcement and Stabilization Geosynthetics and Soil Nailing Subsidence in Mining Operations Causes and Mechanisms of Subsidence Prediction and Modeling of Subsidence Mitigation Measures for Subsidence Surface Deformation and Tilt Impacts on Structures and Infrastructure Environmental Concerns and Remediation Case Studies of Subsidence in Mining Lessons Learned and Best Practices Conclusion and Future Outlook

Observation of the Earth and Its Environment Herbert J. Kramer, 2002 Windows Macintosh Version **Unmanned Aerial Remote Sensing** David R. Green, 2020-07-10 Unmanned Aircraft Systems UAS are a rapidly evolving technology with an expanding array of diverse applications In response to the continuing evolution of this technology this book discusses unmanned aerial vehicles UAVs and similar systems platforms and sensors as well as exploring some of their environmental applications It explains how they can be used for mapping monitoring and modeling a wide variety of different environmental aspects and at the same time addresses some of the current constraints placed on realizing the potential use of the technology such as s flight duration and distance safety and the invasion of privacy etc Features of the book Provides necessary theoretical foundations for pertinent subject matter areas Introduces the role and value of UAVs for geographical data acquisition and the ways to acquire and process the data Provides a synthesis of ongoing research and a focus on the use of technology for small scale image and spatial data acquisition in an environmental context Written by experts of the technology who bring together UAS tools and resources for the environmental specialist Unmanned Aerial Remote Sensing UAS for Environmental Applications is an excellent resource for any practitioner utilizing remote sensing and other geospatial technologies for environmental applications such as conservation research and planning Students and academics in information science environment and natural resources geosciences and geography will likewise find this comprehensive book a useful and informative resource **Global Navigation Satellite System and Geographical Information System**

Mr. Rohit Manglik, 2024-06-24 Covers GNSS and GIS technologies for spatial data collection and analysis with applications in navigation mapping and urban planning 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 Aerospace Science and Engineering Sara Bagassi,Dario Modenini,Marco Petrolo,2023-10-01 The papers of this conference focus on the following topics dynamics and control navigation aeroacoustics fluid dynamics human machine interaction structures maintenance and operations sustainability of aeronautics and space space economy propulsion additive manufacturing sensors aerospace systems aeroelasticity artificial intelligence and UAV unmanned aerial vehicle Keywords Autonomous Navigation Visual Navigation Space Mission Radar Detection Aeroacoustics Plasma Formation Digital Technologies Heat Transfer Vibration Analysis Future Passenger Aircraft Acoustic Metamaterial Design Highly Energetic Materials Bistatic Radar Helicopter Tracking Supersonic Parachute Dynamical Modeling Composite Beams Additive Manufacturing BCC Cell Characterization Interplanetary Trajectory Design Thermoelastic Properties of Composites Offner Spectrometer Nanosatellite Aeroelastic Analysis Fluid Structure Interaction Models Composite Laminates Climate Change AI Autonomous Navigation Optical Sensors Cyberattacks Optical Fiber Sensor Fracture Analysis Deep Space Autonomous Navigation Noise Sources Photogrammetric Analysis Acoustic Metamaterials CO2 Emission Supersonic Transport **GPS and GNSS Technology in Geosciences** George P. Petropoulos,Prashant K.

Srivastava,2021-02-18 GPS and GNSS Technology in Geosciences offers an interdisciplinary approach to applying advances in GPS GNSS technology for geoscience research and practice As GPS GNSS signals can be used to provide useful information about the Earth s surface characteristics and land surface composition GPS equipment and services for commercial purposes continues to grow thus resulting in new expectations and demands This book provides case studies for a deeper understanding of the operation and principles of widely applied approaches and the benefits of the technology in everyday research and activities Presents processing methods and techniques of GPS GNSS implementation that are utilized in in situ data collection in design and systems analysis Offers an all inclusive critical overview of the state of the art in different algorithms and techniques in GPS GNSS Addresses both theoretical and applied research contributions on the use of this technology in a variety of geoscience disciplines Robot Systems for Rail Transit Applications Hui Liu,2020-06-27 Robot Systems for Rail Transit Applications presents the latest advances in robotics and artificial intelligence for railway systems giving foundational principles and running through special problems in robot systems for rail transit State of the art research in robotics and railway systems is presented alongside a series of real world examples Eight chapters give definitions and characteristics of rail transit robot systems describe assembly and collaborative robots in manufacturing introduce automated guided vehicles and autonomous rail rapid transit demonstrate inspection robots cover trench robots and explain unmanned aerial vehicles This book offers an integrated and highly practical way to approach robotics and artificial intelligence in rail transit Introduces robot and artificial intelligence AI systems for rail transit applications Presents research alongside step by step coverage of real world cases Gives the theoretical foundations underlying practical application Offers solutions for high speed railways from the latest work in robotics Shows how robotics and AI systems afford new and efficient methods in rail transit

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