

Geotechnologies and the Environment

Patrick L. Lawrence *Editor*

Geospatial Tools for Urban Water Resources

 Springer

Geospatial Tools For Urban Water Resources 7

Geotechnologies And The Environment

**Chetan Sharma,Anoop Kumar
Shukla,Shray Pathak,Vijay P. Singh**

Geospatial Tools For Urban Water Resources 7 Geotechnologies And The Environment:

Geospatial Tools for Urban Water Resources Patrick L. Lawrence, 2012-09-04 This book examines the application of geotechniques to address a wide range of issues facing urban water resources. Growing populations leading to urbanization and related development have lead to problems associated with water quality, storm water management, flood control, environmental health and related ecosystem impacts. Major cities and other urban areas are facing challenges in addressing the implications of impacts to water resources. Recent innovations in geotechnologies including Geographic Information Science, GIS, remote sensing and other spatial tools and techniques provide great opportunities and potential to assist in dealing with these problems. This volume provides a series of case studies that examine the application of new methods and approaches in a range of geotechnologies as utilized to better understand and resolve urban water resource concerns in communities throughout the world. Computer based mapping, spatial analysis, satellite imagery, decision support systems, web based applications, aerial photography and other methods are highlighted by their development and application. The research presented in this volume will provide for an excellent source of knowledge and learning to assist professionals, experts and students with a better understanding of how the use of geotechnologies can be used to assist urban communities to address water resource challenges.

GIScience for the Sustainable Management of Water Resources Gowhar Meraj, Shruti Kanga, Majid Farooq, Suraj Kumar Singh, Sudhanshu, 2022-12-22 Water is one of the most critical resources of nature that is necessary for sustaining life for all living things. This volume discusses in detail a selection of geospatial approaches, tools and techniques for understanding the root causes behind the degradation of our water resources. Satellite remote sensing provides essential data for mapping water resources, hydrology, flux measurement, monitoring, drought and flood inundation. With an abundance of informative case studies, this volume discusses the use of the satellite remote sensing and GIS based systems for managing urban storm water, for flood and soil erosion management, for mapping groundwater zones for crop production, including measuring soil moisture and aridity, for gauging the impact of climate change, for evaluating glacier change dynamics, for assessing the impact of urban growth on water resources, for measuring the degradation of rivers and more.

Water Policy and Governance in Canada Steven Renzetti, Diane P. Dupont, 2016-10-31 This book provides an insightful and critical assessment of the state of Canadian water governance and policy. It adopts a multidisciplinary variety of perspectives and considers local, basin, provincial and national scales. Canada's leading authorities from the social sciences, life and natural sciences address pressing water issues in a non-technical language, making them accessible to a wide audience. Even though Canada is seen as a water rich country with 7% of the world's reliable flow of freshwater and many of the world's largest rivers, the country nevertheless faces a number of significant water related challenges, stemming in part from supply demand imbalances but also a range of water quality issues. Against the backdrop of a water policy landscape that has changed significantly in recent years, this book therefore seeks to examine water related issues that are not only

important for the future of Canadian water management but also provide insights into transboundary management non market valuation of water decentralized governance methods the growing importance of the role of First Nations peoples and other topics in water management that are vital to many jurisdictions globally The book also presents forward looking approaches such as resilience theory and geomatics to shed light on emerging water issues Researchers students and those directly involved in the management of Canadian waters will find this book a valuable source of insight In addition this book will appeal to policy analysts people concerned about Canadian water resources specifically as well as global water issues

Geospatial Tools for Urban Water Resources Springer,2012-09-05 **GIS India** ,2003 *Geospatial Technologies in Environmental Management* Nancy Hoalst-Pullen,Mark W. Patterson,2010-09-27 Geotechnologies and the Environment Environmental Applications and Management presents an engaging and diverse array of physically oriented GIScience applications that have been organized using four broad themes While the book's themes are by no means mutually exclusive Hoalst-Pullen and Patterson provide an elegant overview of the field that frames the collection's subsequent thematic structure Wilderness and Wildlife Response Glaciers Wetlands and Watersheds and Human Health and the Environment Over the course of the volume the contributing authors move beyond basic and in some respects clichéd landscape ecology of land use change to explore human environment dynamics heretofore not emphasized in the applied literature In doing so the collection presents a compelling case for the importance of developing new physically oriented GIScience applications that reside at the nexus of social and natural systems with the explicit intent of informing public policy and/or the decision making practices of resource managers Individually the chapters themselves are intentionally diverse The diversity of the approaches their spatial context and emphases on management applications demonstrate the many ways in which geotechnologies can be used to address small and big problems in both developed and developing regions The collection's internal coherence is derived like the book series from its explicit appeal to a wide variety of human environment interactions with potential policy linkages

GIS and Geocomputation for Water Resource Science and Engineering Barnali Dixon,Venkatesh Uddameri,2016-02-08 GIS and Geocomputation for Water Resource Science and Engineering not only provides a comprehensive introduction to the fundamentals of geographic information systems but also demonstrates how GIS and mathematical models can be integrated to develop spatial decision support systems to support water resources planning management and engineering The book uses a hands on active learning approach to introduce fundamental concepts and numerous case studies are provided to reinforce learning and demonstrate practical aspects The benefits and challenges of using GIS in environmental and water resources fields are clearly tackled in this book demonstrating how these technologies can be used to harness increasingly available digital data to develop spatially oriented sustainable solutions In addition to providing a strong grounding on fundamentals the book also demonstrates how GIS can be combined with traditional physics based and statistical models as well as information theoretic tools like neural networks and fuzzy set theory *Geospatial*

Techniques for Managing Environmental Resources Jay Krishna Thakur, Sudhir Kumar Singh, AL Ramanathan, M. Bala Krishna Prasad, Wolfgang Gossel, 2012-03-05 Geospatial Information is spatial data concerning a place or in space collected in real time. Geospatial techniques together with remote sensing, geographic information science, Global Positioning System, GPS, cartography, geovisualization, and spatial statistics are being used to capture, store, manipulate, and analyze to understand complex situations to solve mysteries of the universe. These techniques have been applied in various fields such as meteorology, forestry, environmental management, agriculture, health, homeland security, etc. around the globe. This volume presents case studies and examples from various parts of the world and provides a broad overview of various approaches, data sets, data acquiring, monitoring, and dissemination methods, satellites and sensors, tools and techniques used, integrating tools, techniques, and application to various fields for the sustainable management of environmental resources in the context of global environmental change and natural hazards. The objective of this book is to provide state-of-the-art information to academics, researchers, and industry practitioners who are involved or interested in the study, use, design, and development of advanced and emerging geospatial technologies around the world with the ultimate aim to empower individuals and organizations in building competencies for exploiting the opportunities of the knowledge society. All the chapters are peer-reviewed and evaluated and are an inter and multi-disciplinary source of information, making an effort to link various geospatial techniques to make the earth an habitable place. The contributors have tried to focus their respective views on the current problems that need urgent attention. Consequently, we see this book as a comprehensive information base which includes work of expertise in their specific fields of research.

Geographic Information Systems in Water Resources Engineering Lynn E. Johnson, 2016-04-19 State-of-the-art GIS spatial data management and analysis tools are revolutionizing the field of water resource engineering. Familiarity with these technologies is now a prerequisite for success in engineers and planners' efforts to create a reliable infrastructure. GIS in Water Resource Engineering presents a review of the concepts and application.

Geospatial Technology to Support Communities and Policy Swagata Ghosh, Maya Kumari, Varun Narayan Mishra, 2024-02-26 This book covers theoretical concepts of climate change related phenomena, different components of geospatial technology, and application of geospatial technology on analysis of climate changes. Besides the book will also cover different characteristics of climate resilience, how resilience relates to the adaptation and mitigation, and role of geospatial science techniques and tools in building climate resilience of a society. This text is suitable for researchers, academicians, urban planners, environmentalists, policy makers, scientists, ecologists, administrators, etc.

Geospatial Technologies for Integrated Water Resources Management Bhagwan B. Ghute, Pranaya Diwate, 2024-07-16 This book examines water resources and helps understand complexities in water management and explains the use of geospatial technology. By 2050, the world will have nearly about 9.8 billion population, and which is almost 2.5 to 3 billion added to the present population. Only 3% of world water resources are available for human consumption. Even some resources are polluted.

because of poor management Water management is important since it helps determine future irrigation prospects Management of water resources under set policies and regulations Water is a more valuable commodity and the world is facing acute water shortages because of drought which is attributed to climate change and overuse Many rivers are drying up polluted and encroached Now the challenge is whether future generations will have enough fresh water for living Geospatial Technology i e Remote Sensing RS and GIS have gained considerable interest among earth and hydrological science communities for solving and understanding various complex issues and approaches towards water resources development and management Water can provide sustainability to any region Sustainability means that meet the needs of the present without compromising the ability of future generations to meet their own needs These are generally integrated to study a variety of natural resources and their characteristics Major advancements have been accomplished in integrating remote sensing and GIS and they complement each other RS is used for acquiring information for GIS Remote sensing and GIS integration provide information on the spatial variation extent and potential and limitations of natural resources which is essential for planning the strategy for sustainable development Most hydrological or geomorphological models are developed in a GIS framework and these are helpful for the planning and management of water and decision makers for sustainable development

Geospatial Technology for Water Resource Applications Prashant K. Srivastava, Prem Chandra Pandey, Pavan Kumar, Akhilesh Singh, Raghubanshi, Dawei Han, 2016-07-26 This book advances the scientific understanding development and application of geospatial technologies related to water resource management It presents recent developments and applications specifically by utilizing new earth observation datasets such as TRMM GPM AMSR E 2 SMOS SMAP and GCOM in combination with GIS artificial intelligence and hybrid techniques By linking geospatial techniques with new satellite missions for earth and environmental science the book promotes the synergistic and multidisciplinary activities of scientists and users working in the field of hydrological sciences

Sustainable Development and Geospatial Technology Chetan Sharma, Anoop Kumar Shukla, Shray Pathak, Vijay P. Singh, 2024-09-26 This two volume set showcases the various ways in which geospatial technology can be used to achieve sustainable development goals across different sectors such as urban planning natural resource management agriculture disaster management and energy management The books provide insights into the potential of geospatial technology in promoting sustainable development practices and addressing challenges related to climate change environmental degradation and socio economic development Both volumes together are a comprehensive guide that showcases the potential of geospatial technology in promoting sustainable development practices across different sectors and will serve as an essential resource for professionals policymakers researchers and students interested in sustainable development and geospatial technology Volume 2 explores practical applications insightful case studies and emerging trends within the dynamic intersection of sustainable development and geospatial technology Delving into the critical domain of water resources and agriculture it scrutinizes the application of geospatial tools in river basin

management integrated water resources management IWRM sustainable agriculture and precision agriculture The volume then shifts its focus to disaster management energy and the future encompassing geospatial data science for disaster resilience Earth observation for sustainable energy management and diverse case studies that highlight the impact of geospatial technology on sustainable development Moreover it ventures into environmental monitoring and analysis discussing topics like land use planning climate change mitigation environmental monitoring technology and socioeconomic inequalities

Application of Geospatial Technology and Modelling on Natural Resources Management Sandipan Das,Prem C. Pandey,Onisimo Mutanga,Suvarna Tickle,Mengjiao Jiang,Uday Chatterjee,Akash Anand,2025-07-04 This contributed volume provides coverage of geospatial technology and modelling techniques that are useful for natural resource assessment at various scales from regional to global This makes it a valuable resource for researchers practitioners scientists faculties and students interested in understanding how geospatial tools can be used to assess natural resources The book provides numerous examples of how geospatial technology and modeling can be applied to different natural resource management scenarios including forest management wildlife conservation water resources management and climate change adaptation The book takes an interdisciplinary approach to natural resource management bringing together perspectives from ecology environment geography geology and other fields

Geospatial Technologies in Environmental Management Nancy Hoalst-Pullen,Mark W. Patterson,2011-07-23 Geotechnologies and the Environment Environmental Applications and Management presents an engaging and diverse array of physically oriented GIScience applications that have been organized using four broad themes While the book's themes are by no means mutually exclusive Hoalst-Pullen and Patterson provide an elegant overview of the field that frames the collection's subsequent thematic structure Wilderness and Wildlife Response Glaciers Wetlands and Watersheds and Human Health and the Environment Over the course of the volume the contributing authors move beyond basic and in some respects clichéd landscape ecology of land use change to explore human environment dynamics heretofore not emphasized in the applied literature In doing so the collection presents a compelling case for the importance of developing new physically oriented GIScience applications that reside at the nexus of social and natural systems with the explicit intent of informing public policy and/or the decision making practices of resource managers Individually the chapters themselves are intentionally diverse The diversity of the approaches their spatial context and emphases on management applications demonstrate the many ways in which geotechnologies can be used to address small and big problems in both developed and developing regions The collection's intellectual coherence is derived like the book series from its explicit appeal to a wide variety of human environment interactions with potential policy linkages

Geospatial Technology for Landscape and Environmental Management Praveen Kumar Rai,Varun Narayan Mishra,Prafull Singh,2022-01-11 Geospatial technology is a combination of state-of-the-art remote sensing and technology for geographic information systems GIS and global navigation satellite systems GNSS for the mapping and monitoring of

landscapes and environment The main thrust of using geospatial technology is to understand the causes mechanisms and consequences of spatial heterogeneity while its ultimate objective is to provide a scientific basis for developing and maintaining ecologically economically and socially sustainable landscapes This book presents new research on the interdisciplinary applications of geospatial technology for identification assessment monitoring and modelling issues related to landscape natural resources and environmental management The book specifically focuses on the creation collection storage processing modelling interpretation display and dissemination of spatio temporal data which help to resolve environmental management issues including ecosystem change resource utilization land use management and environmental pollution The positive environmental impacts of information technology advancements with regard to global environmental and climate change are also discussed The book addresses the interests of a wide spectrum of readers who have a common interest in geospatial science geology water resource management database management planning and policy making and resource management

Geospatial Modeling for Environmental Management Shruti Kanga, Suraj Kumar Singh, Gowhar Meraj, Majid Farooq, 2022-02-15 This is a comprehensive resource that integrates the application of innovative remote sensing techniques and geospatial tools in modeling Earth systems for environmental management beyond customary digitization and mapping practices It identifies the most suitable approaches for a specific environmental problem emphasizes the importance of physically based modeling their uncertainty analysis advantages and disadvantages The case studies on the Himalayas with a complex topography call for innovation in geospatial techniques to find solutions for various environmental problems Features Presents innovative geospatial methods in environmental modeling of Earth systems Includes case studies from South Asia and discusses different processes and outcomes using spatially explicit models Explains contemporary environmental problems through the analysis of various information layers Provides good practices for developing countries to help manage environmental issues using low cost geospatial approaches Integrates geospatial modeling with policy and analysis its direct implication in decision making Using a systems approach analysis Geospatial Modeling for Environmental Management Case Studies from South Asia shall serve environmental managers students researchers and policymakers

Geospatial Technologies for Resources Planning and Management Chandra Shekhar Jha, Ashish Pandey, V.M. Chowdary, Vijay Singh, 2022-05-24 This book focuses on the application of geospatial technologies for resource planning and management for the key natural resources e.g. water, agriculture, and forest as well as the decision support system DSS for infrastructure development We have seen in the past four decades that the growing complexities of sustainable management of natural resources management have been very challenging The book has been written to leverage the current geospatial technologies that integrate the remotely sensed data available from various platforms the precise locational data providing geospatial intelligence and the advanced integration tools of Geographical Information Systems GIS Geospatial technologies have been used for water resources management employing geomorphological

characteristics analysis of river migration pattern understanding the large scale hydrological process wet land classification and monitoring analysis of glacial lake outburst flood GLOF assessment of environmental flow and soil erosion studies water quality modelling and assessment and rejuvenation of paleochannels through groundwater recharge Geospatial technologies have been applied for crop classification and mapping soil moisture determination using RISAT 1 C band and PALSAR 2 L band sensors inventory of horticulture plantations management of citrus orchards crop yield forecasting rice yield estimation estimation of evapotranspiration and its evaluation against lysimeter and satellite based evapotranspiration product for India to address the various issues of the agricultural system management Geospatial technologies have been used for generation of digital elevation model urban dynamics assessment mobile GIS application at grass root level planning cadastral level developmental planning and e governance applications system dynamics for sustainable development micro level water resources planning site suitability for sewage treatment plant traffic density assessment geographical indications of India archaeological applications and disasters interventions to elaborate various issues of DSS for infrastructure development and management Geospatial technologies have been employed for the generation and reconciliation of the notified forest land boundaries and also the land cover changes analysis within notified forest areas forest resource assessment management and monitoring and wildlife conservation and management This book aims to present high quality technical case studies representing the recent developments in the application of geospatial technologies for resource planning and management The editors hope that this book will serve as a valuable resource for scientists and researchers to plan and manage land and water resources sustainably

Applications of Geospatial Technology and Modeling for River Basin Management Subodh Chandra Pal, Uday Chatterjee, Rabin Chakrabortty, 2024-10-08 *Applications of Geospatial Technology and Modeling for River Basin Management* Volume Twelve covers the use of multi temporal satellite data for accurate estimations of different watershed features It includes methods and case studies of the use of geographic information systems GIS as a valuable tool for criteria based spatial analysis to manage natural resources and accurately simulate natural phenomena such as the hydrologic response of a watershed to precipitation and susceptibility to water erosion The book also provides direction on many types of modelling and mapping techniques in geospatial environments based on river basin management challenges This book will be a useful guide for academics researchers and practitioners involved in the use of geospatial technologies for river basin management as well as those interested in environmental management and Earth surface geomorphology Covers the use of geospatial technologies and modeling for effective management of river basins Includes methodology and detailed case studies showing real world applications at a variety of scales Emphasizes the importance of integrating geospatial tools in decision making processes for sustainable water resource management

GIScience for the Sustainable Management of Water Resources Gowhar Meraj, Shruti Kanga, Majid Farooq, Suraj Kumar Singh, Sudhanshu, 2022-12-22 Water is one of the most critical resources of nature that is necessary for sustaining life for all living things This volume discusses in detail a

selection of geospatial approaches tools and techniques for understanding the root causes behind the degradation of our water resources Satellite remote sensing provides essential data for mapping water resources hydrology flux measurement monitoring drought and flood inundation With an abundance of informative case studies this volume discusses the use of the satellite remote sensing and GIS based systems for managing urban storm water for flood and soil erosion management for mapping groundwater zones for crop production including measuring soil moisture and aridity for gauging the impact of climate change for evaluating glacier change dynamics for assessing the impact of urban growth on water resources for measuring the degradation of rivers and more

This book delves into Geospatial Tools For Urban Water Resources 7 Geotechnologies And The Environment. Geospatial Tools For Urban Water Resources 7 Geotechnologies And The Environment is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Geospatial Tools For Urban Water Resources 7 Geotechnologies And The Environment, encompassing both the fundamentals and more intricate discussions.

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- Chapter 2: Essential Elements of Geospatial Tools For Urban Water Resources 7 Geotechnologies And The Environment
- Chapter 3: Geospatial Tools For Urban Water Resources 7 Geotechnologies And The Environment in Everyday Life
- Chapter 4: Geospatial Tools For Urban Water Resources 7 Geotechnologies And The Environment in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, this book will provide an overview of Geospatial Tools For Urban Water Resources 7 Geotechnologies And The Environment. The first chapter will explore what Geospatial Tools For Urban Water Resources 7 Geotechnologies And The Environment is, why Geospatial Tools For Urban Water Resources 7 Geotechnologies And The Environment is vital, and how to effectively learn about Geospatial Tools For Urban Water Resources 7 Geotechnologies And The Environment.

3. In chapter 2, this book will delve into the foundational concepts of Geospatial Tools For Urban Water Resources 7 Geotechnologies And The Environment. The second chapter will elucidate the essential principles that need to be understood to grasp Geospatial Tools For Urban Water Resources 7 Geotechnologies And The Environment in its entirety.

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5. In chapter 4, this book will scrutinize the relevance of Geospatial Tools For Urban Water Resources 7 Geotechnologies And The Environment in specific contexts. The fourth chapter will explore how Geospatial Tools For Urban Water Resources 7 Geotechnologies And The Environment is applied in specialized fields, such as education, business, and technology.

6. In chapter 5, the author will draw a conclusion about Geospatial Tools For Urban Water Resources 7 Geotechnologies And The Environment. This chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Geospatial Tools For Urban Water Resources 7

Geotechnologies And The Environment.

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Table of Contents Geospatial Tools For Urban Water Resources 7 Geotechnologies And The Environment

1. Understanding the eBook Geospatial Tools For Urban Water Resources 7 Geotechnologies And The Environment
 - The Rise of Digital Reading Geospatial Tools For Urban Water Resources 7 Geotechnologies And The Environment
 - Advantages of eBooks Over Traditional Books
2. Identifying Geospatial Tools For Urban Water Resources 7 Geotechnologies And The Environment
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an eBook Platform
 - User-Friendly Interface
4. Exploring eBook Recommendations from Geospatial Tools For Urban Water Resources 7 Geotechnologies And The Environment
 - Personalized Recommendations
 - Geospatial Tools For Urban Water Resources 7 Geotechnologies And The Environment User Reviews and Ratings
 - Geospatial Tools For Urban Water Resources 7 Geotechnologies And The Environment and Bestseller Lists
5. Accessing Geospatial Tools For Urban Water Resources 7 Geotechnologies And The Environment Free and Paid eBooks
 - Geospatial Tools For Urban Water Resources 7 Geotechnologies And The Environment Public Domain eBooks
 - Geospatial Tools For Urban Water Resources 7 Geotechnologies And The Environment eBook Subscription Services
 - Geospatial Tools For Urban Water Resources 7 Geotechnologies And The Environment Budget-Friendly Options

6. Navigating Geospatial Tools For Urban Water Resources 7 Geotechnologies And The Environment eBook Formats
 - ePUB, PDF, MOBI, and More
 - Geospatial Tools For Urban Water Resources 7 Geotechnologies And The Environment Compatibility with Devices
 - Geospatial Tools For Urban Water Resources 7 Geotechnologies And The Environment Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Geospatial Tools For Urban Water Resources 7 Geotechnologies And The Environment
 - Highlighting and Note-Taking Geospatial Tools For Urban Water Resources 7 Geotechnologies And The Environment
 - Interactive Elements Geospatial Tools For Urban Water Resources 7 Geotechnologies And The Environment
8. Staying Engaged with Geospatial Tools For Urban Water Resources 7 Geotechnologies And The Environment
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Geospatial Tools For Urban Water Resources 7 Geotechnologies And The Environment
9. Balancing eBooks and Physical Books Geospatial Tools For Urban Water Resources 7 Geotechnologies And The Environment
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Geospatial Tools For Urban Water Resources 7 Geotechnologies And The Environment
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Geospatial Tools For Urban Water Resources 7 Geotechnologies And The Environment
 - Setting Reading Goals Geospatial Tools For Urban Water Resources 7 Geotechnologies And The Environment
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Geospatial Tools For Urban Water Resources 7 Geotechnologies And The Environment
 - Fact-Checking eBook Content of Geospatial Tools For Urban Water Resources 7 Geotechnologies And The Environment

- Distinguishing Credible Sources

13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

Geospatial Tools For Urban Water Resources 7 Geotechnologies And The Environment Introduction

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