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*This book presents a
novel computation of the*

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*topographic LS factor of
the USLE model to
estimate spatial soil
erosion. In developing
countries, soil erosion
is one of the main
concerns as it adversely*

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*affects agriculture and
reduces food production.
Therefore, the author
presents a particularly
relevant approach, as he
demonstrates how the C++
programming allows us to*

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identify important erosion stages like detachment and deposition. He does this by assessing the annual rate of soil erosion from the Shakkar River

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*watershed in India using
distributed information
and applying RS and GIS
techniques. He also
discusses different
approaches that have
been proposed to work*

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*out the influence of
topography on erosion.
Simulated and observed
data of sediment loss
are compared for the
period 1992 to 2006. This
book provides an easy-to-*

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*understand basic piece
of soil erosion and
hydrological research
and reaches out to young
researchers and students
at the graduate and
undergraduate level as*

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*well as applicants of
soil erosion models.
Watershed development
and management programs
are being implemented by
various Government
agencies and NGOs*

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nowadays. These agencies collect the information by conventional survey methods for making watershed action plan. The process of making action plan is

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cumbersome, time-consuming and costly. Satellite imagery has unique ability to provide the actual synoptic views of large area at a time, which is

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*not possible for
conventional survey
methods. Integrated
approach using remote
sensing and geographical
information system (GIS)
provides cost effective*

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*support in resource
inventory. In the
present study an attempt
has been made for
watershed planning using
remote sensing and GIS
techniques, with the*

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*main objective of
fulfill the gaps between
requirement and
utilization of existing
natural resources of a
village regarding
agricultural*

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development. A micro-watershed (5G1D2b3g) having an area of 602.83 ha. was selected for preparing the action plan. Information available from thematic

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*maps prepared through RS
Image & GIS was used for
designing various
conservation measures
The total storage
capacity fulfils the gap
of water requirement at*

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*60 percent probability
of rainfall.*

*Integrating Remote
Sensing and GIS
Techniques with
Ecological Models to Map
Biological Diversity in*

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*Boreal Forest
Diagnosing Irrigation
Water Resources with
Multi-sensor Remote
Sensing and GIS
Techniques
Application of Remote*

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Sensing and GIS

*Techniques in Watershed
Studies*

*A Case Study of the
Lemelerberg Archemerberg
Reserve LAR the
Netherlands for the*

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*Period 1950–1995 : Final
Report Postgraduate
Course in Rural and Land
Ecology Survey
Remote Sensing and Gis
Techniques for the
Assessment of Flash*

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Flood Risk in Quseir, Red Sea Coast, Egypt Pessinus

The monograph is a study on
"Application of RS and GIS for
Morphometric and Land Resource
Analysis - A Remote Sensing and

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GIS based Case Study." Remote sensing and GIS is present day need for monitoring, measurement and modelling through which we can achieve at better decision making. The prime purpose of this book is to present the detail

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morphometric characteristics and land resource analysis technique of a watershed by using remote sensing and GIS which also help in identifying the problem areas and their probable solutions. The main content of the study discuss how to

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characterize a watershed and prioritize it for conservation and management of land resource using remote sensing and GIS techniques. Some analysis has been carried out to prepare Erosion Intensity Unit (EIU) map required

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for calculating the sediment yield indices. The book is useful for the instructors, research scholar and students of geomorphology for a deeper study in the field of morphometric analysis using modern techniques. With the help

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of modern technologies we can
make our world more sustainable.
Image Processing and GIS for
Remote Sensing Techniques and
Applications John Wiley & Sons
Remote Sensing & GIS in Glacier
Mapping

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Proceedings of 2nd International
Conference on GIS and Remote
Sensing 2017

Scale in Remote Sensing and GIS
The Case of Chitwara District, Nepal
GIS and Remote Sensing
Techniques in Land- and Water-

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management

Application of Remote Sensing and
GIS Techniques for Environmental
Geologic Investigation, Northeast
Iowa

***This book focuses on
impending serious problems***

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of socio-economic conditions in the sub-Saharan countries utilizing remote sensing and GIS techniques. In Africa, the use of remote sensing data and analyzing techniques such as GIS is essential for

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any studies that involve an extensive area because more often than not, topographic maps at a scale of 1:50,000 or larger are not available for detailed mapping on the ground. In addition, basic

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socio-economic and physical data, such as census data, environmental data, and infrastructure data, are lacking or not kept updated for modeling analyses.

The recent emergence and

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widespread use of remote sensing and geographic information systems (GIS) has prompted new interest in scale as a key component of these and other geographic information technologies.

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Techniques for dealing explicitly with scale are now available in GIS, but, until now, very little literature was available to consider and solve specific issues of scale. With a balanced mixture of

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***concepts, practical examples,
techniques, and theory, Scale
in Remote Sensing and GIS is
a guide for students and users
of remote sensing and GIS
who must deal with the issues
raised by multiple temporal***

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and spatial scales.

Flood Risk and Hazard

Mapping Using Remote

Sensing and GIS Techniques,

Barotse Floodplain, Western

Province, Zambia

Journal of Remote Sensing &

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GIS : Volume 6

***Modelling Soil Erosion Using
Remote Sensing and GIS
Techniques***

Forest Cover Change

***Detection Using Remote
Sensing and Gis Techniques***

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Alteration Mapping and Massive Sulphide Exploration of the Troodos Massif in Cyprus

This book is an expression of the
myriad ways in which the range

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of Remote Sensing and GIS techniques can be applied to the mapping of glaciers. Glaciers are characterized by the variability of different types of snow and ice deposited in accumulation and ablation areas. Remote Sensing

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techniques like Digital image processing of satellite data provide an effective solution for categorizing the various materials on glaciers depending upon their spectral reflectance. Visual interpretation

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in glaciated terrain suffers mainly because of less understanding highly variable material composition and processes operative over glaciers. This sometimes leads to biased interpretation based on

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little knowledge which leads to wrong interpretation. Inventory of the glaciers is of prime interest to evaluate the nature of changes in glacier dimensions and also to establish relationship between climatic change and

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dynamics of glaciers. As glaciological studies in high altitude terrains are very difficult by conventional methods.

Remote Sensing data with GIS techniques is used to mapping and monitoring of permanent

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snowfields and glacier covered area.

Managing land and water is a complex affair. Decisions must be made constantly to allocate and use natural resources.

Decision and action in any use of

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resources often have strong interactions and side-effects on others, therefore it is extremely important to monitor and forecast the impacts of the decisions very carefully. Reliable information and clear data

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manipulation procedures are compulsory for monitoring and forecasting. Remote Sensing has considerable potential to provide reliable information. A Geographic Information System is an easy tool for manipulating

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and analysing the data in a clear and fast way. This book describes in seven practical examples how GIS and Remote Sensing techniques are successfully applied in land and water management.

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Assessment of Forest Cover
Change Using Remote Sensing
and GIS Techniques and the
Related Socio-economic Aspects
A Case Study of the Roxo Dam
Irrigation System, Portugal
Lake Catchment Interaction

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Analysis by Using Remote
Sensing and GIS Techniques -
the Case Study of Kolleru Lake,
South India
Final Report
Detecting Changes in Forest
Condition Using Remote Sensing

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and GIS Techniques

Pictures at a conflagration

**Forest cover change analysis
between 1973 and 2003 was
conducted in Banja Woreda,
Awi zone, Amhara region
using remote sensing and
geographic information**

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system (GIS) supported with field verifications. Information was extracted from various Satellite images and different digital maps. The objectives of this study were to detect the extent and rate of forest

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**cover change over the last
30 years. Three dates of
Landsat image data of the
1973, 1986 and 2003 were
used to produce land cover
map in general and forest
cover map in particular.
NDVI image differencing and**

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**post-classification
comparison change detection
methods were employed. In
addition to this, household
levels of socioeconomic data
were used in explaining the
causes of forest cover
changes in the study area.**

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The results show that during the last 30 years, forest cover declined from 6044 ha in 1973 to 2855.9 ha in 1986 and 2446.9 ha in the year 2003. The annual rate of forest cover change between 1973 and 2003 was 120

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ha/year. The socio-economic factors like population growth, the demand for the expansion of agricultural land, fuel wood and construction materials were major driving forces for observed forest cover

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changes.

The coastal zone has been of importance for economic development and ecological restoration due to their rich natural resources and vulnerable ecosystems.

Remote sensing techniques

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have proven to be powerful tools for the monitoring of the Earth's surface and atmosphere on a global, regional, and even local scale, by providing important coverage, mapping and classification of land

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**cover features such as
vegetation, soil, water and
forests. This chapter
introduced the methods for
monitoring the coastal
environment using remote
sensing and GIS techniques.
Case studies of port**

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expansion monitoring in
typical coastal regions,
together with the coastal
environment changes analysis
were also presented.

remote sensing and GIS
techniques for mapping and
analyzing prescribed fire in

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**the Madrean Archipelago
Post-forest Fire
Rehabilitation Assessment
Using Remote Sensing and GIS
Techniques
Essential Image Processing
and GIS for Remote Sensing
A Case Study of the North-**

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**eastern Part of Bandung,
West Java, Indonesia
Water Resources Assessment in
the ESCWA Region Using
Remote Sensing and Gis
Techniques
White Nile State, Sudan**
Following the successful publication

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of the 1st edition in 2009, the 2nd edition maintains its aim to provide an application-driven package of essential techniques in image processing and GIS, together with case studies for demonstration and guidance in remote sensing applications. The book therefore has

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a “3 in 1” structure which pinpoints the intersection between these three individual disciplines and successfully draws them together in a balanced and comprehensive manner. The book conveys in-depth knowledge of image processing and GIS techniques in an accessible and comprehensive

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manner, with clear explanations and conceptual illustrations used throughout to enhance student learning. The understanding of key concepts is always emphasised with minimal assumption of prior mathematical experience. The book is heavily based on the authors' own

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research. Many of the author-designed image processing techniques are popular around the world. For instance, the SFIM technique has long been adopted by ASTRIUM for mass-production of their standard “Pan-sharpen” imagery data. The new edition also includes a

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completely new chapter on subpixel technology and new case studies, based on their recent research.

October 2-3, 2017 Vienna, Austria

Key Topics : Remote Sensing, GIS Techniques and Technologies, Geodynamics, GIS in renewable energy sources, GIS Market, Remote

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Sensing in Urban Environment,
Geostatistics, Spatial Analysis With
GIS, Seismology and Geodesy,
Disaster assessment and
management, Entrepreneurs
Investment Meet, Global Navigation
Satellite System (GNSS),
A Study on Pune by Using Remote

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Sensing and Gis Techniques

Implications for Fire Management

Application of RS and GIS for

Morphometric and Land Resource

Analysis

Assessment of Sand Encroachment

by Remote Sensing and GIS

Techniques

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Erosion Mapping and Monitoring
Using Remote Sensing and GIS
Techniques

Remote Sensing and GIS Approach
Essential Image

Processing and GIS for
Remote Sensing is an

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accessible overview of
the subject and
successfully draws
together these three key
areas in a balanced and
comprehensive manner.
The book provides an

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overview of essential techniques and a selection of key case studies in a variety of application areas. Key concepts and ideas are introduced in a clear

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and logical manner and described through the provision of numerous relevant conceptual illustrations.

Mathematical detail is kept to a minimum and

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only referred to where necessary for ease of understanding. Such concepts are explained through common sense terms rather than in rigorous mathematical

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detail when explaining image processing and GIS techniques, to enable students to grasp the essentials of a notoriously challenging subject area. The book

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is clearly divided into three parts, with the first part introducing essential image processing techniques for remote sensing. The second part looks at GIS

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and begins with an overview of the concepts, structures and mechanisms by which GIS operates. Finally the third part introduces Remote Sensing

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Applications. Throughout the book the relationships between GIS, Image Processing and Remote Sensing are clearly identified to ensure that students are

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able to apply the various techniques that have been covered appropriately. The latter chapters use numerous relevant case studies to illustrate

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various remote sensing,
image processing and GIS
applications in
practice.

Pune, the cultural
capital of Maharashtra
and the 8th largest city

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of India is the study area and this study basically explores the growth of Pune from kasba Pune to the current Happening city with the help of

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remotely sensed data and
GIS. Measuring the
sprawl of Pune by using
entropy analysis and
modeling the urban
development of Pune by
using cellular automata

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are the most interesting
part of this work.

Monitoring the Coastal
Environment Using Remote
Sensing and GIS
Techniques
Spatial Techniques for

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Soil Erosion Estimation
Application of Remote
Sensing and GIS
Techniques to Study Soil
and Crop Yield
Variations for Precision
Farming

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Slope Instability and
Hazard Zonation Mapping
Using Remote Sensing and
GIS Techniques in the
Area of Cameron
Highlands Malaysia
Image Processing and GIS

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for Remote Sensing
Recent Advances in
Remote Sensing and GIS
in Sub-Sahara Africa