

|                         |  |
|-------------------------|--|
| 1. Record Nr.           | UNINA9911018820403321  |
| Autore                  | Kumar Sanjay   |
| Titolo                  | Disaster Management and Environmental Sustainability   |
| Pubbl/distr/stampa      | Newark : , : John Wiley & Sons, Incorporated, , 2024<br>©2024  |
| ISBN                    | 9781394167463<br>1394167466<br>9781394167456<br>1394167458   |
| Edizione                | [1st ed.]  |
| Descrizione fisica      | 1 online resource (299 pages)  |
| Altri autori (Persone)  | SinghSuraj Kumar<br>KangaShruti<br>MerajGowhar<br>FarooqMajid<br>NathawatM. S  |
| Disciplina              | 363.34   |
| Soggetti                | Disaster relief<br>Environmental degradation   |
| Lingua di pubblicazione | Inglese  |
| Formato                 | Materiale a stampa   |
| Livello bibliografico   | Monografia   |
| Nota di contenuto       | Cover -- Series Page -- Title Page -- Copyright Page -- Contents -- Editorial -- Preface -- Acknowledgments -- Chapter 1 Assessment of Changes in River Morphology Due to Illegal Sand Mining by Geospatial Techniques -- 1.1 Introduction -- 1.2 Materials and Methods -- 1.3 Results and Discussion -- 1.4 Conclusion -- References -- Chapter 2 Feasibility of Solar Power Generation Potential in Una, Bilaspur, Solan, and Sirmaur Districts of Himachal Pradesh Using Geospatial Techniques -- 2.1 Introduction -- 2.2 Material and Methods -- 2.3 Statistical Summary, Results, and Analysis -- 2.4 Conclusion -- Limitations of the Study -- References -- Chapter 3 Assessment of the Drivers of Domestic Water Consumption Pattern in Growing Population of Idah LGA, Kogi State, Nigeria -- 3.1 Introduction -- 3.2 Study Area -- 3.3 Methodology -- 3.4 Result and Discussion -- 3.4.1 Demographic Characteristics of Respondents -- 3.4.2 Sources of Water for Domestic |

Uses within the Study Area -- 3.4.3 Magnitude of Household Water Demand in the Study Area -- 3.4.4 Consumption Pattern of Water in the Study Area -- 3.4.5 Factors Influencing Consumption Pattern of Household Water in the Study Area -- 3.5 Conclusion and Recommendations -- References -- Chapter 4 Disaster Risk Reduction and Risk Management: A Conceptual Framework -- 4.1 Introduction -- 4.2 Types of Disasters -- 4.3 Disasters in Different Paradigms -- 4.4 Criteria for Disasters -- 4.5 Disaster Risk -- 4.6 Disaster Risk Reduction (DRR) -- 4.7 Disaster Risk Management (DRM) -- 4.7.1 Indicators of Disaster Risk Management -- 4.7.2 Measures of Disaster Management -- 4.8 Conclusion -- References -- Chapter 5 Impact of Environmental Degradation and Disaster Happenings on Human Health -- 5.1 Introduction -- 5.2 Methods, Results and Discussion -- 5.2.1 Environmental Degradation -- 5.2.2 Human Health. 5.2.3 Impact of Environmental Degradation on Human Health -- 5.2.4 Remedies: Environmental Education and Simple Measuring Techniques -- 5.3 Conclusions -- References -- Chapter 6 Impact of Development on Environmental Degradation: An Indian Diaspora -- 6.1 Introduction -- 6.2 Environmental Degradation -- 6.3 Conclusion -- References -- Chapter 7 Food Crisis During Covid-19 Pandemic Among Migrants: A Study With Reference to Rohtak City (Haryana) -- 7.1 Introduction -- 7.2 Study Area -- 7.3 Patterns and Reasons for Migration -- 7.4 Objectives -- 7.5 Data Source and Methodology -- 7.6 Results and Discussions -- 7.7 Policy Suggestions and Way Forward -- 7.8 Conclusions -- References -- Chapter 8 Crime Against Women in Patna and Its Environs: Degradation in Social Environment -- 8.1 Introduction -- 8.2 Literature Review -- 8.3 Conclusions and Suggestions -- References -- Chapter 9 Expansion of Irrigation Facilities and Its Impact on Cropping Intensity: A Spatio-Temporal Analysis With Reference to Haryana -- 9.1 Introduction -- 9.2 Objectives -- 9.3 Study Area -- 9.4 Database and Methodology -- 9.5 Results and Discussion -- 9.5.1 Trends of Cropping Intensity in Haryana -- 9.5.2 Spatial Pattern of Cropping Intensity -- 9.6 Relationship Between the Extent of Irrigation and Cropping Intensity -- 9.7 Conclusion -- References -- Chapter 10 Dwindling Forest Cover and Environmental Degradation: A Case Study of Bihar -- 10.1 Introduction -- 10.2 Objectives -- 10.3 Research Design -- 10.4 Study Area -- 10.5 Results and Discussion -- 10.6 Conclusion -- References -- Chapter 11 Environment and Sustainable Development: Issues and Challenges -- 11.1 Introduction -- 11.2 Environment and Development -- 11.3 Environmental Ethical Issues and Development -- 11.4 Measures and Suggestions -- References -- Chapter 12 Government Programs and Policies Towards Green Environment. 12.1 Environmental Laws -- 12.1.1 Importance of Legal Laws Related to Environment -- 12.2 Major Programs and Policies of India Towards Green Environment -- 12.2.1 Wildlife Protection Act (1972) of India -- 12.2.2 Water (Prevention and Control of Pollution) Act, 1974 -- 12.2.3 Tiwary Committee (1980) -- 12.2.4 Air (Prevention and Control of Pollution) Act, 1981 -- 12.2.5 Forests (Conservation) Act, 1980 -- 12.2.6 Amended Forest Act, 1992 -- 12.2.7 Environment (Protection) Act, 1986 -- 12.2.7.1 Salient Features -- 12.2.8 Indian Environmental Policy (1992) -- 12.2.9 National Environmental Policy 2006 -- 12.2.9.1 Objectives of National Environment Policy, 2006 -- 12.2.10 National Action Plan on Climate Change -- 12.2.11 Recent Environmental Programs in India -- 12.3 Conclusion -- References -- Chapter 13 Use of Geospatial Technique in Urban Flood Hazard Management -- 13.1 Introduction -- 13.2 A GIS-Based Method for Identifying Flood Risk -- Conclusion -- References -- Chapter 14 Impact of Urbanization on

Infrastructure and Environment of the Cities in Bihar -- 14.1  
 Introduction -- Conclusion -- References -- Chapter 15 Uses of Wi-Fi  
 Technology and Its Effects on Social Life -- 15.1 Introduction -- 15.2  
 Origin of Wi-Fi -- 15.3 Uses of Wi-Fi -- 15.4 How Wi-Fi Works -- 15.5  
 Tools -- 15.5.1 Terms, Uses, and Communication -- 15.6 Effect on  
 Society -- 15.6.1 Positive Effect of Wi-Fi on Society -- 15.6.2 Negative  
 Effect of Wi-Fi on Society -- 15.6.3 Some Myths about Wi-Fi  
 Technology -- 15.6.4 False Claims About Wi-Fi Health Risks -- 15.7  
 Results -- 15.8 Conclusion -- Acknowledgment -- References --  
 Chapter 16 Application of Remote Sensing and GIS in Disaster  
 Management: An Applied Review -- 16.1 Introduction -- 16.2  
 Classification of Disasters -- 16.3 Disaster Management Cycle --  
 16.3.1 Application of Remote Sensing and GIS in Disaster Management.  
 16.3.2 Phases of Disaster Management -- 16.4 Conclusion --  
 References -- Chapter 17 Population Change and Its Impact on the  
 Shortfall of Groundwater: A Case Study of Berhampore in Murshidabad,  
 West Bengal -- 17.1 Introduction -- 17.2 Berhampore and  
 Groundwater Condition -- 17.3 Origin of Berhampore -- 17.4 Social  
 Upliftment of Berhampore -- 17.5 Analysis -- 17.6 Conclusion --  
 References -- Chapter 18 Development of Future Rule Curves for KLRS  
 Pulichintala Reservoir Operation Using SWAT and GA Models -- 18.1  
 Introduction -- 18.2 Study Area and Data -- 18.3 Methodology --  
 18.3.1 Soil Water Assessment Tool Model -- 18.3.2 Genetic Algorithm  
 Model -- 18.4 Results and Discussion -- 18.4.1 KLRS Pulichintala Basin  
 SWAT Results Discussion -- 18.4.2 KLRS Pulichintala Basin  
 Optimization Results Discussion -- 18.5 Conclusion --  
 Acknowledgments -- References -- Chapter 19 Understanding the  
 Relationship Between River Health and Society for River Restoration: A  
 Review -- 19.1 Introduction -- 19.2 Rivers, Society, and Health -- 19.3  
 Impact of Changes in Water Ecosystems Contents -- 19.4 What Are The  
 Challenges? -- 19.5 What Are The Solutions? -- 19.5.1 Health  
 Assessment Indicators -- 19.6 River Restoration -- 19.6.1 River  
 Restoration Counters These Pressures Through a Wide Range of Social  
 Benefits -- 19.6.2 Other Benefits of River Restoration -- 19.6.2.1  
 Classic Flood Risk Management -- 19.6.2.2 Modern Flood Risk  
 Management -- 19.7 River Pollution -- 19.8 Environmental Flow  
 Requirements -- 19.9 Conclusions -- References -- Chapter 20  
 Geospatial Mapping of Groundwater Potential Zones Using Multi-  
 Criteria Decision Making AHP Approach in a Pisangan Watershed, Ajmer  
 District (RAJ.) -- 20.1 Introduction -- 20.2 Remote Sensing and GIS  
 Techniques -- 20.3 Analytical Hierarchical Process -- 20.4 Weighted  
 Overlay Method -- 20.5 Study Region -- 20.6 Flowchart of  
 Methodology.  
 20.7 Methodology -- 20.8 Multi-Influencing Factors of Groundwater  
 Potential Zones -- 20.9 Results and Discussion -- 20.9.1 Weightage  
 Calculation -- 20.9.2 Geomorphology -- 20.9.3 Land Use/Land Cover  
 -- 20.9.4 Lineament Density -- 20.9.5 Drainage Density -- 20.9.6  
 Slope -- 20.9.7 Soil -- 20.9.8 Rainfall -- 20.9.9 Digital Elevation Model  
 (DEM) -- 20.9.10 Delineating the Groundwater Potential Zone --  
 20.9.11 Overlay Analysis for the Delineation of Groundwater Potential  
 Zone -- 20.10 Conclusion -- References -- Index -- Also of Interest --  
 EULA.

## Sommario/riassunto

This comprehensive work, edited by Sanjay Kumar and others, explores various aspects of disaster management and environmental challenges. The book delves into issues such as illegal sand mining, solar power potential, domestic water consumption, and disaster risk management. It includes analyses on environmental degradation, the impact of development on ecosystems, and the food crisis during the COVID-19

pandemic. Through numerous case studies and the application of geospatial techniques, it aims to provide insights into sustainable development and environmental policies. The book is intended for researchers, policymakers, and practitioners in environmental sciences and disaster management.

---