

1. Record Nr.	UNINA990000583270403321
Autore	Fifer, Stanley
Titolo	Analogue computation : theory, techniques and applications / Stanley Fifer
Pubbl/distr/stampa	New York : McGraw-Hill book company, 1961
Descrizione fisica	4 v. ; 24 cm
Disciplina	005.39 537.5
Locazione	DINSC MA1 FI1 DINEL
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Lingua di pubblicazione	Inglese
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2. Record Nr.	UNINA9910959037003321
Titolo	Floodplains : physical geography, ecology and societal interactions // Marc A. Alvarez, editor
Pubbl/distr/stampa	Hauppauge, N.Y., : Nova Science Publishers, Inc., c2011
ISBN	1-61728-608-7
Edizione	[1st ed.]
Descrizione fisica	1 online resource (322 p.)
Collana	Environmental science, engineering and technology
Altri autori (Persone)	AlvarezMarc A
Disciplina	577.6/6
Soggetti	Floodplains Floodplain ecology Human ecology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Intro -- Contents -- Preface -- Water and People in the Yaere Floodplain (North Cameroon) -- Abstract -- Introduction -- The Study Area -- Geographical Framework -- Climatic Context -- Hydrological Context -- Geomorphological Context -- Development Projects and Human Interventions -- The SEMRY Projects -- The Attempts to Counter the Partial Drying of the Yaere and the Waza Logone Project -- The Fishing Channels and the Artificial Ponds -- The Zilim Dyke on the Logomatia -- Social Situations and Human Activities -- Family Rice-farming in the Yaere - A Recent Activity -- Nomadic Herding -- Fishing as the Dominant Activity -- Discussion -- Comparison of the Impact of the Climate and Human Interventions -- The Difficult Governance of Floodplains -- Conclusion -- Acknowledgments -- References -- Designing Actions for Bird Conservation at the "Yuriria" Lagoon, its Associated Floodplain and Terrestrial Habitats in Michoacán, Mexico -- Abstract -- Introduction -- Study Area -- Methods -- Prioritization -- Land Use and Land Cover -- Habitat Fragmentation -- Bird Inventory -- Ecological Indices -- Species Distributions -- Zoning within the Protected Area -- Results -- Habitat Fragmentation -- Bird Inventory -- Ecological Indices -- Discussion and Management Implications -- Acknowledgments -- References -- Appendix -- The 'Floodplain Burning' Approach for Digital Elevation Model Processing in Flat and Flooded Areas -- Abstract -- 1. Introduction -- 2. The Proposed

Method -- 2.1. Distance Transformation -- 2.2. Elevation Offset Calculation -- 2.3. Floodplain Burning Approach -- 3. Implementing the Method to the Case Study -- 3.1. The Digital Elevation Model -- 3.2. Digital Channel Network Acquisition -- 3.3. Floodplain Map -- 4. Results and Discussion -- 4.1. SRTMv3 DEM -- 4.2. ASTER DEM -- 4.3. SRTMv3 DEM + SB Approach -- 4.4. HydroSHEDS -- 4.5. SRTMv4 DEM. 4.6. SRTMv3 DEM + FB Approach -- 5. Conclusions -- Acknowledgments -- References -- Temporal and Spatial Variability of Water and Sediment Composition in the Middle Paraná River System -- Abstract -- 1. Introduction -- 2. The Basin -- 3. Study Area -- 4. Water -- 5. Sediment -- References -- Benthic Invertebrates in the Middle Paraná River Floodplain (Argentina) -- Abstract -- The Middle Paraná River Floodplain -- Resources and Habitats -- Benthic Invertebrates -- Secondary Channels -- Floodplain Lakes -- Marginal Wetlands -- Functional Feeding Groups -- Conservation of Floodplain Habitats -- References -- Flood Inundation and the Temporal Dynamics of Floodplain Waterholes in an Australian Dryland River -- Abstract -- 1. Introduction -- 2. Study Area -- 2.1. Location -- 2.2. Climate -- 2.3. Geomorphology -- 2.4. Hydrology -- 2.5. Geology -- 2.6. Soils -- 2.7. Vegetation -- 2.8. Land Use -- 2.9. Fish Community and Aquatic Invertebrate Fauna -- 3. Methods -- 3.1. Study Design -- 3.2. Hydrology -- 3.3. Lagoon Morphology -- 3.4. Habitat Characteristics -- 3.5. Physico-Chemical Parameters -- 3.6. Data Analysis -- 4. Results -- 4.1. General Hydrological Patterns -- 4.2. General Description of the Study Sites -- 4.3. Temporal Variation in Lagoon Morphometry -- 4.4. Lagoon Microhabitat Characteristics -- 4.5. Physico-Chemical Parameters -- 5. Discussion -- 5.1. Macintyre River Flows -- 5.2. Morphology and Habitat Characteristics -- 5.3. Water Quality Characteristics -- 5.4. Concluding Comments -- Acknowledgments -- References -- Appendix I -- Photos of the Study Sites -- Metapopulations of Decapods in the Floodplain of Parana River, South America -- Abstract -- 1. Introduction -- 2. Characterization of a Complex System. -- 3. Environment and Habitat of Decapods -- 4. Decapod Metapopulations and Landscapes in the Floodplain of the Paraná River. 5. Passive and Active Movements of -- Decapods in the Floodplain -- 6. Some Examples in the Floodplain of Paraná River -- 6.1. True Crabs in the Floodplain -- 6.2. Pseudocrabs, Unique Anomurans that Live in Freshwater Environments -- 6.3. Prawns, Abundant Species in the Floodplain -- 7. Conclusions: Population Dynamic? -- References -- A Successful Combined Use of Telemetric Monitoring System and Spatial Data Modeling to Study the Turbidity Behavior in the Amazon Floodplain -- Abstract -- Introduction -- Study Site and Background -- 3. The Data Set and Methods -- 3.1. In Situ Data -- Temporal Domain -- Spatial Domain -- 3.2. Methodological Approach -- Time Series Analysis -- Spatial Analysis -- 4. Results and Discussion -- Time Series Analysis -- Cross-wavelet Spectrum and Wavelet Coherence and Phase -- Spatial Analysis -- Conclusions -- Acknowledgments -- References -- Characterization of Geometric Properties of Simulated Droughts and Floods of Water Bodies -- Abstract -- 1. Introduction -- 2. The Geometric Properties under Study -- 2.1. Convexity -- 2.2. Influence Zones -- 2.3. Skeletons -- 2.4. Regions of Change -- 3. Methodology -- 3.1. The Data Set -- 3.2. Generation of Simulated Droughts and Floods of Water Bodies Using Mathematical Morphology -- 3.3. Computation of Geometric Properties of Simulated Droughts and Floods of Water Bodies -- 4. Results and Discussion -- 5. Conclusion -- References -- Disaster-resilient Subdivision Design: Evaluating the Potential and Performance of New Urbanism for Reducing Flood Risks -- Abstract --

References -- Recent Evolution of the Jourdain River Braidplain on Espiritu Santo Island, Vanuatu -- Abstract -- Introduction -- Channel Migration -- Braidplain Lithology -- Tectonism and Climatic Influences -- Conclusions -- Acknowledgments -- References.

Restoration of Channelized Fluvial Systems and Their Floodplains -- Abstract -- Introduction -- Floodplain Formation -- Sediment -- Hydrology -- Floodplain Features -- Channels -- Natural Levees -- Floodbasins and Backswamps -- Ridge and Swale Topography -- Scour Channels, Hummocks, and Mini-Basins -- Floodplain Forests -- Composition and Structure -- Floodplain Forest Succession -- Alterations to Fluvial Systems -- Case Study: Western Tennessee -- Geology -- Land-Use and Alterations -- Current Problems -- Restoration Potential -- Restoration Guidelines -- References -- Index -- Blank Page.

Sommario/riassunto

A floodplain is a flat or nearly flat land adjacent to a stream or river that experiences occasional or periodic flooding. It includes the floodway, which consists of the stream channel and adjacent areas that carry flood flows, and the flood fringe, which are areas covered by the flood, but which do not experience a strong current. This book reviews and presents research in the study of floodplains from across the globe including water and people in the Yaere Floodplain in North Cameroon, the turbidity behavior in the Amazon floodplains, evaluating the potential and performance of New Urbanism for reducing flood risks.
