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	Nota di contenuto	1 Unveiling the Geomorphological, Hydrometeorology and Geological Insights of the Indian Sundarban -- 2 Geo-informatics Applications on Shoreline Shifting Analysis -- 3 Exploring Short-Term Shoreline Dynamics in the Indian Sundarbans: A Digital Shoreline Change Analysis (DSAS) Approach -- 4 Evaluating Long-Term Shoreline Shifts in the Indian Sundarbans Using Digital Shoreline Change Analysis (DSAS) -- 5 Shifting Shores and Risk Zones: DSAS Based Erosion–Accretion Mapping in the Indian Sundarbans -- 6 Decoding Landscape Transformation: ML and Geospatial Techniques for Land Use/Land Cover Mapping in the Indian Sundarbans -- 7 Exploring the Potential of Erosion-Accretion Zonation Mapping to Assess Short and Long-Term Shoreline Changes.
	Sommario/riassunto	This SpringerBrief uses geospatial techniques to assess shoreline change dynamics in the Indian Sundarban, a unique region located in the delta of three major rivers - the Ganges, Brahmaputra and Meghna – in India and Bangladesh. It is one of the largest mangrove forests in the world. The geomorphological characteristics of this region are quite distinct from other parts of India due to its low elevation, high tidal

range, and vast expanse of shallow water bodies. The chapters here cover the basics of the use of geoinformatics applications for shoreline analysis and move to a detailed description of both short- and long-term shoreline change using automated Digital Shoreline Change Analysis (DSAS). The book also covers erosion-accretion hazard zone mapping and shoreline vegetation mapping.