

1. Record Nr.	UNINA9910299440903321
Autore	Rangel-Buitrago Nelson
Titolo	Risk assessment of storms in coastal zones: case studies from Cartagena (Colombia) and Cadiz (Spain) / / by Nelson Rangel-Buitrago, Giorgio Anfuso
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2015
ISBN	3-319-15844-9
Edizione	[1st ed. 2015.]
Descrizione fisica	1 online resource (69 p.)
Collana	SpringerBriefs in Earth Sciences, , 2191-5369
Disciplina	551.457
Soggetti	Coasts Natural disasters Geographic information systems Coastal Sciences Natural Hazards Geographical Information Systems/Cartography
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.
Nota di contenuto	Preface -- Introduction -- Review of existing assessment risk methods -- Study areas -- Used Methodology -- Spatial Distribution of Assessment Indexes -- Final Reflections.
Sommario/riassunto	This book assists the reader in determining storm risks, focussing on sandy coasts and cliff coasts in the context of expected sea level rise from littoral transformation and climate change. It examines storm impacts through matrixes concerning physical parameters, socio-economic activities, ecological and historic resources, and it presents the Coastline Risk to Storms Index as a single numerical measure of the risk for a given area. The methodology is described and tested against two coastal areas: one in the Caribbean Sea (Cartagena, Colombia) and the other on the coast of the Atlantic Ocean (Cadiz, Spain). Both areas record an important flow of tourists associated with the "sun, sea and sand market" which represents an economic recourse for the hinterland too. Chapters describe this approach and explore three particular types of variables: i) the forcing variables contributing to storm-induced

erosion, ii) dynamic variables that determine the resilience to erosion (Susceptibility) and iii) the vulnerable targets grouped in three different contexts (socio-economic, ecological and heritage). These are combined into two separate indices, the Hazard Index (combining forcing and susceptibility) and the Vulnerability Index, which together constitute the Coastline Risk to Storms Index. Maps created using this semi-quantitative approximation method can help to determine the causes, processes and consequences of storm-related processes. This book is therefore important to anyone considering coastal development programs, especially decision-makers: the work presented here can assist in the development of preventative management strategies for the most vulnerable areas.

2. Record Nr.	UNINA9910595070903321
Autore	Zhang Junfeng
Titolo	Advances in Heat and Mass Transfer in Micro/Nano Systems
Pubbl/distr/stampa	Basel, : MDPI Books, 2022
Descrizione fisica	1 electronic resource (214 p.)
Soggetti	Technology: general issues History of engineering & technology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	The miniaturization of components in mechanical and electronic equipment has been the driving force for the fast development of micro/nanosystems. Heat and mass transfer are crucial processes in such systems, and they have attracted great interest in recent years. Tremendous effort, in terms of theoretical analyses, experimental measurements, numerical simulation, and practical applications, has been devoted to improve our understanding of complex heat and mass transfer processes and behaviors in such micro/nanosystems. This

Special Issue is dedicated to showcasing recent advances in heat and mass transfer in micro- and nanosystems, with particular focus on the development of new models and theories, the employment of new experimental techniques, the adoption of new computational methods, and the design of novel micro/nanodevices. Thirteen articles have been published after peer-review evaluations, and these articles cover a wide spectrum of active research in the frontiers of micro/nanosystems.
