



Handbook of Coastal Disaster Mitigation for Engineers and Planners

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The world's population is expected to increase to over 8 billion by 2020. About 60% of the total population of the world lives in coastal areas and 65% of the cities with a population of over 2.5 million are located in coastal areas. Written by an international panel of experts in the fields of engineering and risk management, The **Handbook of Coastal Disasters Mitigation** presents a coherent overview of 10 years of coastal disaster risk management and engineering, during which some of the most relevant events of recent time have taken place, including the Indian Ocean tsunami, hurricanes Katrina and Sandy in the United States or the 2011 Japanese tsunami.

- International case studies offer practical lessons on how disaster resilience can be improved in the future
- Contains tools and techniques for analyzing and managing the risk of coastal disasters
- Provides engineering measures for mitigating coastal vulnerability to tsunamis, tropical cyclones, and hurricanes
- Includes crucial tactics for rehabilitation and reconstruction of the infrastructure

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Editorial Review

From the Back Cover

Written by an international panel of experts in the fields of engineering and risk management, the **Handbook of Coastal Disaster Mitigation for Engineers and Planners** presents a coherent overview of 10 years of coastal disaster risk management and engineering, during which some of the most relevant events of recent times have taken place, including the 2004 Indian Ocean Tsunami, hurricanes Katrina and Sandy in the United States, the 2011 Tohoku earthquake tsunami in Japan and typhoon Haiyan in 2013 in the Philippines. The Handbook begins with an authoritative engineering analysis of recent tsunami and tropical cyclone events. This is followed by chapters covering topics dealing with how to analyze future threats and conduct vulnerability assessments.

The authors then introduce engineering mitigation measures, including structural measures (both hard and soft types) and the potential for post-disaster reconstruction to build societies more resilient to natural disasters. Finally, the influence that climate change is likely to have on future coastal disasters and engineering structures is discussed, together with adaptation options for a range of coastal infrastructure.

Users Review

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Charles Greiner:

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