

# PIANC Seismic Design Guidelines for Port Structures

- International Guidelines by PIANC
- WG members from 11 countries
- Seismic performance-based design
- Analysis methods

## Performance-based design

- Acceptable damage level
  - I Serviceable
  - II Repairable
  - III Near Collapse
  - IV Collapse
- Earthquake motion level
  - Level 1
  - Level 2

# Seismic Design Guidelines For Port Structures Pianc

**TD Snyder**



## **Seismic Design Guidelines For Port Structures Pianc:**

*Seismic Design Guidelines for Port Structures* International Navigation Association Brussels,2002-01-01 For the first time international guidelines for seismic design of port structures have been compiled in this comprehensive book These guidelines address the limitations inherent in conventional design and establish the framework for an evolutionary design strategy based on seismic response and performance requirements The provisions reflect the diverse nature of port facilities throughout the world where the required functions of port structures economic and social environment and seismic activities may differ from region to region This book comprises a main text and eight technical commentaries The main text introduces the reader to basic earthquake engineering concepts and a strategy for performance based design while the technical commentaries illustrate specific aspects of seismic analysis and design and provide examples of various applications of the guidelines Proven simplified methods and state of the art analysis procedures have been carefully selected and integrated in the guidelines in order to provide a flexible and consistent methodology for the seismic design of port facilities

## **Seismic Design Guidelines for Port Structures ,2001 A Practical Design Guide For Coastal Rubble Mound Structures**

Louay A Mohammad,2023-03-21 This comprehensive compendium highlights the practical side in the design of the coastal rubble mound structures All basic rubble mound structural elements with various special features or arrangements are discussed and presented with guidelines to the best practices A unique feature of this book offers insight into practical constraints and problems A variety of practical designs and construction examples are elucidated to most common issues faced in the design with extensive discussions on what influences the selection of the proper solution It is an essential aid to take the design a step further from basic to a professional level This useful reference benefits coastal engineers in general design consultants construction engineers or anyone carrying out supervision and inspection work Related Link s

**Emerging Trends in Geotechnical Engineering** ,2012-06-08 Proceedings of National Workshop on Emerging Trends in Geotechnical Engineering ETGE 2012 Guwahati 08th June 2012

**Jetties and Wharfs** CROW,2021-09-29 For centuries jetties and wharfs have been designed and built around the world and play an important role in contemporary ports The difference in the use of jetties piers and wharfs is that jetties are frequently used for the transshipment and storage of light materials and ro ro traffic while piers are generally used for heavy loads like iron ore That is why piers are mostly designed and constructed like quay walls which are beyond the scope of this handbook The designs were originally based on trial and error and the insights of those who dared to conquer local conditions such as wind waves currents and soil composition Design and construction techniques have since evolved into the designs we see on the coast or in river ports and seaports nowadays The purpose of this handbook is to provide insight and guidelines regarding aspects that are important in the design of jetties and wharfs Jetty specific issues such as loads interfaces between materials installations on jetties and wharfs as well as detailing aspects are also covered This handbook is part of a series of Dutch port infrastructure design

recommendations that include the Quay Walls handbook and Flexible Dolphins handbook

**Port Engineering** Gregory P. Tsinker, 2004-02-16 This comprehensive book covers all major aspects of the design and maintenance of port facilities including port planning design loads for today's larger vessel size seismic design guidelines and breakwater design New material addresses environmental concerns the latest developments on inter modal hubs and transfer points and the latest information on port security and procedures being implemented around the world

**Challenges and Innovations in Geomechanics** Marco Barla, Alice Di Donna, Donatella Sterpi, 2021-01-14 This book gathers the latest advances innovations and applications in the field of computational geomechanics as presented by international researchers and engineers at the 16th International Conference of the International Association for Computer Methods and Advances in Geomechanics IACMAG 2020 21 Contributions include a wide range of topics in geomechanics such as monitoring and remote sensing multiphase modelling reliability and risk analysis surface structures deep structures dams and earth structures coastal engineering mining engineering earthquake and dynamics soil atmosphere interaction ice mechanics landfills and waste disposal gas and petroleum engineering geothermal energy offshore technology energy geostructures geomechanical numerical models and computational rail geotechnics

**Disaster Management** Alejandro Lopez-Carresi, Maureen Fordham, Ben Wisner, Ilan Kelman, Jc Gaillard, 2013-11-12 There is a perennial gap between theory and practice between academia and active professionals in the field of disaster management This gap means that valuable lessons are not learned and people die or suffer as a result This book opens a dialogue between theory and practice It offers vital lessons to practitioners from scholarship on natural hazards disaster risk management and reduction and developments studies opening up new insights in accessible language with practical applications It also offers to academics the insights of the enormous experience practitioners have accumulated highlighting gaps in research and challenging assumptions and theories against the reality of experience Disaster Management covers issues in all phases of the disaster cycle preparedness prevention response and recovery It also addresses cross cutting issues including political economic and social factors that influence differential vulnerability and key areas of practice such as vulnerability mapping early warning infrastructure protection emergency management reconstruction health care and education and gender issues The team of international authors combine their years of experience in research and the field to offer vital lessons for practitioners academics and students alike

**Seismic Design Guidelines for Port Structures**, 2001

Protecting Water Quality in Marinas Permanent International Association of Navigation Congresses, 2008 Whilst maritime navigation is not a consumptive use of marine resources both shipping and development or maintenance of navigation related infrastructure may influence the marine environment whether as a result of discharges or emissions noise physical disturbance modification or other activities especially new infrastructures building Introduction

*Displacement-based Seismic Design of Structures* M. J. N. Priestley, Gian Michele Calvi, Mervyn J. Kowalsky, 2007 Displacement Based Seismic Design of Structures is a book primarily

directed towards practicing structural designers who are interested in applying performance based concepts to seismic design. Since much of the material presented in the book has not been published elsewhere it will also be of considerable interest to researchers and to graduate and upper level undergraduate students of earthquake engineering who wish to develop a deeper understanding of how design can be used to control seismic response. The design philosophy is based on determination of the optimum structural strength to achieve a given performance limit state related to a defined level of damage under a specified level of seismic intensity. Emphasis is also placed on how this strength is distributed through the structure. This takes two forms: methods of structural analysis and capacity design. It is shown that equilibrium considerations frequently lead to a more advantageous distribution of strength than that resulting from stiffness considerations. Capacity design considerations have been re-examined and new and more realistic design approaches are presented to insure against undesirable modes of inelastic deformation. The book considers a wide range of structural types including separate chapters on frame buildings, wall buildings, dual wall frame buildings, masonry buildings, timber structures, bridges, structures with isolation or added damping devices and wharves. These are preceded by introductory chapters discussing conceptual problems with current force based design, seismic input for displacement based design, fundamentals of direct displacement based design and analytical tools appropriate for displacement based design. The final two chapters adapt the principles of displacement based seismic design to assessment of existing structures and present the previously developed design information in the form of a draft building code. The text is illustrated by copious worked design examples. 39 in all and analysis aids are provided in the form of a CD containing three computer programs covering moment curvature analysis, Cumbia linear element based inelastic time history analysis, Ruaumoko and a general fibre element dynamic analysis program, SeismoStruct. The design procedure developed in this book is based on a secant stiffness rather than initial stiffness representation of structural response using a level of damping equivalent to the combined effects of elastic and hysteretic damping. The approach has been fully verified by extensive inelastic time history analyses which are extensively reported in the text. The design method is extremely simple to apply and very successful in providing dependable and predictable seismic response.

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Risk Analysis IV C. A. Brebbia, Wessex Institute of Technology, 2004 The Transactions of Wessex Institute Pref Seismic Performance and Simulation of Pile Foundations in Liquefied and Laterally Spreading Ground Ross W. Boulanger, Kohji Tokimatsu, 2006 Proceedings of a workshop on Seismic Performance and Simulation of Pile Foundations in Liquefied and Laterally Spreading Ground held in Davis California March 16 18 2005 Sponsored by the Pacific Earthquake Engineering Research Center University of California at Berkeley Center for Urban Earthquake Engineering Tokyo Institute of Technology Geo Institute of ASCE This collection contains 25 papers that discuss physical measurements and observations from earthquake case histories field tests in blast liquefied ground dynamic centrifuge model studies and large scale shaking table studies Papers contain recent findings on fundamental soil pile interaction mechanisms numerical analysis methods and reviews and evaluations of existing and emerging design methodologies This proceeding provides comprehensive coverage of a major issue in earthquake engineering practice and hazard mitigation efforts *Recommendations of the Committee for Waterfront Structures* Arbeitsausschuss, Deutsche Gesellschaft für Erd- und Grundbau, 2006-03-27 **Failure, Distress and Repair of Concrete Structures** N. Delatte, 2009-11-24 Many concrete structures around the world have reached or exceeded their design life and are showing signs of deteriorating Any concrete structure which has deteriorated or has sustained damage is a potential hazard **Solutions to Coastal Disasters 2008** Louise Wallendorf, 2008 This collection contains 90 papers presented at the Solutions to Coastal Disasters 2008 conference held in Turtle Bay Oahu Hawaii April 13 16 2008 *Earthquake Spectra*, 2005 **Géotechnique**, 2008 California Code of Regulations, 2013 This document is Part 2 of 12 parts of the official triennial compilation and publication of the adoptions amendments and repeal of administrative regulations to California Code of Regulations Title 24 also referred to as the California Building Standards Code This part is known as the California Building Code Preface Proceedings of the ... International Conference on Offshore Mechanics and Arctic Engineering, 2006

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