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## Seismic design guidelines for port structures



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# Seismic Design Guidelines For Port Structures

**Charles Scawthorn, Wai-Fah Chen**



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Earthquake Geotechnical Engineering and Associated Problems ISSMGE TC203 The PBD I PBD II and PBD III events in Japan 2009 Italy 2012 and Canada 2017 respectively were highly successful events for the international earthquake geotechnical engineering community The PBD events have been excellent companions to the International Conference on Earthquake Geotechnical Engineering ICEGE series that TC203 has held in Japan 1995 Portugal 1999 USA 2004 Greece 2007 Chile 2011 New Zealand 2015 and Italy 2019 The goal of PBD IV is to provide an open forum for delegates to interact with their international colleagues and advance performance based design research and practices for earthquake geotechnical engineering

*Hydraulic Fill Manual* Jan van 't Hoff, Art Nooy van der Kolff, 2012-12-18 Without proper hydraulic fill and suitable specialised equipment many major infrastructure projects such as ports airports roads industrial or housing projects could not be realised Yet comprehensive information about hydraulic fill is difficult to find This thoroughly researched book written by noted experts takes the reader step by step through the complex development of a hydraulic fill project Up to date and in depth this manual will enable the client and his consultant to understand and properly plan a reclamation project It provides adequate guidelines for design and quality control and allows the contractor to work within known and generally accepted guidelines and reasonable specifications The ultimate goal is to create better designed more adequately specified and less costly hydraulic fill projects The Hydraulic Fill Manual covers a range of topics such as The development cycle of a hydraulic fill project How technical data are acquired and applied The construction methods applicable to a wide variety of equipment and soil conditions the capabilities of dredging equipment and the techniques of soil improvement How to assess the potentials of a borrow pit Essential environment assessment issues The design of the hydraulic fill mass including the boundary conditions for the design effects of the design on its surroundings the strength and stiffness of the fill mass density sensitivity to liquefaction design considerations for special fill material such as silts clays and carbonate sands problematic subsoils and natural hazards Quality control and monitoring of the fill mass and its behaviour after construction This manual is of particular interest to clients consultants planning and consenting authorities environmental advisors contractors and civil geotechnical hydraulic and coastal engineers involved in dredging and land reclamation projects

**Ports and Terminals** Han Ligteringen, 2022-01-31 By nature port planning is a multidisciplinary activity It involves expertise in the field of transport economics shipping nautical matters safety and logistics But also knowledge of waves and currents sediment transport and coastal morphology dredging and land reclamation and design of breakwaters and quays Hence port planning is teamwork But within this team the port planner plays a central role in developing the concepts and obtaining the required expertise at the right time Most port planners are civil engineers with hydraulic engineering training and experience The first part of this book Chapter 1 through 6 is aimed at providing the basic elements to perform this planning process In Chapter 7 the detailed planning of container terminals is treated including the logistic process Further attention is paid to design aspects typical for such terminals The objective is to provide the basis for

an all round port engineer somebody who can participate in the design of any given type of port or terminal Chapters 8 14  
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