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Infrastructure Sustainability and Design Spiro Pollalis, Andreas Georgoulis, Stephen Ramos, Daniel Schodek, 2013-06-19 You're overseeing a large scale project but you're not an engineering or construction specialist and so you need an overview of the related sustainability concerns and processes To introduce you to the main issues experts from the fields of engineering planning public health environmental design architecture and landscape architecture review current sustainable large scale projects the roles team members hold and design approaches including alternative development and financing structures They also discuss the challenges and opportunities of sustainability within infrastructural systems such as those for energy water and waste so that you know what's possible And best of all they present here for the first time the Zofnass Environmental Evaluation Methodology guidelines which will help you and your team improve infrastructure design engineering and construction Subway Environmental Design Handbook: Principles and applications Transit Development Corporation, 1976 **Environmental Impacts of International Shipping The Role of Ports** OECD, 2011-02-17 This book examines the environmental impacts of international maritime transport and looks more in detail at the impacts stemming from near port shipping activities the handling of the goods in the ports and from the distribution of the goods to the surrounding regions **Proceedings of the 15th International Marine Design Conference** Austin A. Kana, 2024-08-22 The 15th International Marine Design Conference IMDC 2024 was organized by the Department of Maritime and Transport Technology Delft University of Technology and was hosted by the Netherlands Defence Materiel Organisation at the Marine Etablissement Amsterdam MEA The aim of the IMDC is to promote all aspects of marine design as an engineering discipline The focus of IMDC 2024 is on the key design challenges and opportunities in the maritime field with special emphasis on the following themes Ship design methodology issues such as design spiral systems engineering set based design design optimisation concurrent design modular design configuration based design or fuzzy design aspects Novel marine design concepts such as hull form design transport ships service vessels naval vessels yachts and cruise ships or specialized and complex vessels Offshore design methodology such as applications to offshore wind turbines semi submersibles floating fish farms or floating cities Influence of energy transition on maritime design including both zero emission and high power and energy systems Influence of unmanned and autonomous transition on maritime design Influence of digital transition on maritime design such as digital shadows and twins model based systems engineering AI ML and big data Influence of regulations on maritime design Maritime design education Permanent WTC PATH Terminal, 2007 *Port Development* United States. Congress. House. Committee on Merchant Marine and Fisheries, 1982 *Tweed-New Haven Airport Runway Safety Area and Taxiway Improvements Project, Environmental Impact Evaluation*, 2000 **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

International Encyclopedia of Transportation ,2021-05-13 In an increasingly globalised world despite reductions in costs and time transportation has become even more important as a facilitator of economic and human interaction this is reflected in technical advances in transportation systems increasing interest in how transportation interacts with society and the need to provide novel approaches to understanding its impacts This has become particularly acute with the impact that Covid 19 has had on transportation across the world at local national and international levels Encyclopedia of Transportation Seven Volume Set containing almost 600 articles brings a cross cutting and integrated approach to all aspects of transportation from a variety of interdisciplinary fields including engineering operations research economics geography and sociology in order to understand the changes taking place Emphasising the interaction between these different aspects of research it offers new solutions to modern day problems related to transportation Each of its nine sections is based around familiar themes but brings together the views of experts from different disciplinary perspectives Each section is edited by a subject expert who has commissioned articles from a range of authors representing different disciplines different parts of the world and different social perspectives The nine sections are structured around the following themes Transport Modes Freight Transport and Logistics Transport Safety and Security Transport Economics Traffic Management Transport Modelling and Data Management Transport Policy and Planning Transport Psychology Sustainability and Health Issues in Transportation Some articles provide a technical introduction to a topic whilst others provide a bridge between topics or a more future oriented view of new research areas or challenges The end result is a reference work that offers researchers and practitioners new approaches new ways of thinking and novel solutions to problems All encompassing and expertly authored this outstanding reference work will be essential reading for all students and researchers interested in transportation and its global impact in what is a very uncertain world Provides a forward looking and integrated approach to transportation Updated with future technological impacts such as self driving vehicles cyber physical systems and big data analytics Includes comprehensive coverage Presents a worldwide approach including sets of comparative studies and applications

Monthly Catalogue, United States Public Documents ,1978

Intelligent Freight Transportation Petros A. Ioannou,2008-03-24 Increasing capacity at ports and goods movement in the supply chain in general while also satisfying environmental economic political labor union and other constraints is arguably the greatest challenge of modern transportation With space at a premium and costs through the roof it is increasingly obvious that the traditional solutions are

Energy Efficiency in Shipping for Environmental Sustainability Ashok Menon,2024-10-29 This book examines the environmental impact of emissions from ships setting out the mandatory regulations of MARPOL 73 78 and the Shipboard Energy Efficiency Management Plan as well as new International Maritime Organization regulations such as MEPC 80 Chapters provide an in depth understanding of how

ship staff can increase energy efficiency by reducing fuel consumption and using innovative technologies Comprehensive coverage of energy audit methodology is offered to ensure compliance with energy efficiency requirements Written accessibly to suit a wide range of readers in the shipping industry the book will be especially valuable for ship officers as well as trainees and cadets

Port Strategy for Sustainable Development Elvira Haezendonck, 2021-03-23 Today most large port hubs include the circular economy transformation challenge together with smart digitalization and Internet of Things IoT in their strategic priorities However many ports do not seem to have progressed beyond incremental small scale sustainable innovations or the support of rather fragmented sustainability initiatives The challenges are complex since ports do not only have to reconsider their own core activities but also their role in the supply chain of shippers to lift themselves out of the linear lock in Opportunities are also created and port authorities and businesses need to embrace circular learning and turn these projects into sustainable business models This strategic change or refocus requires new insights into innovative governance and business frameworks the link between strategy and commercially viable business models systems innovation intensified stakeholder collaboration and co creation altered traffic segments and hinterland focus amongst others These Special Issue articles address current CE transition concerns salient to port strategists and managers such as first strategic changes towards circular ports building awareness on the importance of sustainability data and available space and how port authorities can develop circular business models

Seismic Design Guidelines for Port Structures , 2001

Toll Plaza Design Albert E. Schaufler, 1997 This synthesis presents information on the design of toll plazas at highway bridge tunnel and other transportation facilities It will be of interest to toll facility managers and other officials as well as to consultants concerned with the design operation and maintenance of toll facilities It can also be useful to financial personnel traffic engineers planners and security and enforcement personnel In addition it provides information to those concerned with environmental issues such as drainage runoff lighting noise and air quality The report focuses on the design factors affecting toll plazas including traffic toll collection methods location and configuration of toll plazas as well as congestion management operation and maintenance of the facility and environmental issues The synthesis includes discussions of existing standards and practices related to toll facility design including plaza and roadway geometrics lane configuration electronic toll collection capacity access communication safety and security signing pavement markings and new technology

Life-Cycle of Structures and Infrastructure Systems Fabio Biondini, Dan M. Frangopol, 2023-06-28 Life Cycle of Structures and Infrastructure Systems collects the lectures and papers presented at IALCCE 2023 The Eighth International Symposium on Life Cycle Civil Engineering held at Politecnico di Milano Milan Italy 2 6 July 2023 This Open Access Book contains the full papers of 514 contributions including the Fazlur R Khan Plenary Lecture nine Keynote Lectures and 504 technical papers from 45 countries The papers cover recent advances and cutting edge research in the field of life cycle civil engineering including emerging concepts and innovative applications related to life cycle design assessment inspection

monitoring repair maintenance rehabilitation and management of structures and infrastructure systems under uncertainty Major topics covered include life cycle safety reliability risk resilience and sustainability life cycle damaging processes life cycle design and assessment life cycle inspection and monitoring life cycle maintenance and management life cycle performance of special structures life cycle cost of structures and infrastructure systems and life cycle oriented computational tools among others This Open Access Book provides an up to date overview of the field of life cycle civil engineering and significant contributions to the process of making more rational decisions to mitigate the life cycle risk and improve the life cycle reliability resilience and sustainability of structures and infrastructure systems exposed to multiple natural and human made hazards in a changing climate It will serve as a valuable reference to all concerned with life cycle of civil engineering systems including students researchers practitioners consultants contractors decision makers and representatives of managing bodies and public authorities from all branches of civil engineering Departments of Commerce, Justice, and State, the Judiciary, and Related Agencies Appropriations for 2000: Justification of the budget estimates, Department of State, Maritime Administration, the judiciary United States. Congress. House. Committee on Appropriations. Subcommittee on the Departments of Commerce, Justice, and State, the Judiciary, and Related Agencies,1999 **The AIGA Guide to Careers in Graphic and Communication Design** Juliette Cezzar,2018-03-08 What graphic design is what designers need to know and who becomes a designer have all evolved as the computer went from being a tool to also becoming our primary medium for communication How jobs are advertised and how prospective candidates communicate with prospective employers have changed as well as has the culture and context for many workplaces requiring new approaches for how to find your first and last position Through clear prose a broad survey of contexts where designers find themselves in the present day and interviews with designers The AIGA Guide to Careers in Graphic and Communication Design is an invaluable resource for finding your place in this quickly changing and growing field The book includes interviews with over 40 designers at all levels working in house and out of house in studios consultancies or alone including Nicholas Blechman The New Yorker Rob Giampietro Google Njoki Gitahi IDEO Hilary Greenbaum Whitney Museum Holly Gressley Vox Media Cemre G ng r Facebook Natasha Jen Pentagram Renda Morton The New York Times and Alisa Wolfson Leo Burnett Worldwide **Nominations to NASA, the National Transportation Safety Board, the Federal Maritime Commission, and the Department of Transportation** United States. Congress. Senate. Committee on Commerce, Science, and Transportation,2010 Global Vessel-Source Maritime Pollution Governance—Technical Innovation and Policy Orientation Lang Xu,Zheng Wan,Jihong Chen,2023-09-25 The maritime industry plays an important role in international trade activities and the global economy It is estimated that international shipping carries approximately 80% of global trade by volume and more than 70% by value However increasing maritime activities have had a negative impact on the marine environment and human health For example in November 2002 a tanker

carrying 77000 tons of fuel oil sank in the Bay of Biscay which polluted thousands of kilometers of Western European coasts rivers streams and swamps Oil spills caused by ship accidents and other pollution associated with maritime activities have attracted considerable attention in the research community A large number of studies on shipping pollution have been conducted across different disciplines However new challenges are emerging in maritime operation and management leading to research questions related to intelligent technology and environmental protection maritime pollution and governance maritime accidents and environmental emergency

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