1. Record Nr. UNINA9910460541303321 Mooring of ships to piers and wharves / / prepared by the Mooring **Titolo** Analysis Task Committee of the Technical Committee on Ports and Harbors of the Coasts, Oceans, Ports, and Rivers Institute of the American Society of Civil Engineers; edited by John W. Gaythwaite, P.E. Pubbl/distr/stampa Reston, Virginia:,: American Society of Civil Engineers,, [2014] ©2014 **ISBN** 1-68015-460-5 0-7844-7842-2 Descrizione fisica 1 online resource (161 p.) Collana ASCE manuals and reports on engineering practice ; ; number 129 Disciplina 627/.3Soggetti Mooring of ships Piers Wharves Electronic books. Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Includes bibliographical references and index. Nota di bibliografia ""Cover""; ""CONTENTS""; ""PREFACE""; ""CONTRIBUTORS""; Nota di contenuto ""NOTATION""; ""1. INTRODUCTION""; ""1.1 Purpose and Scope""; ""1.2 General Considerations""; ""1.3 Vessel Characteristics""; ""1.4 Port Facilities"": ""1.5 Mooring Arrangements"": ""1.6 Industry Standards"": ""2. MOORING PRACTICE AND DESIGN REQUIREMENTS""; ""2.1 General Considerations""; ""2.2 Environmental Conditions""; ""2.3 Design Vessels and Berth Occupancy""; ""2.4 Design Criteria""; ""2.5 Allowable Loads and Factors of Safety""; ""3. MOORING SYSTEM COMPONENTS""; ""3.1 Mooring Lines""; ""3.2 Fittings and Hardware"" ""3.3 Dockside Equipment"""3.4 Fender Systems""; ""3.5 Docking Aid and Monitoring Systems""; ""3.6 Mechanical and Automated Mooring Systems""; ""3.7 Shipboard Equipment""; ""4. FORCES ON MOORED VESSELS""; ""4.1 General Considerations""; ""4.2 Wind Forces""; ""4.3 Current Forces""; ""4.4 Passing Vessel Forces""; ""4.5 Wave Forces""; ""4.6 Seiche and Long Wave Effects""; ""4.7 Tide and Draft Changes and Vessel Movements at Berth""; ""4.8 Ice""; ""5. MOORING ANALYSIS

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