

TABLE OF CONTENTS

Maritime Transport & Shipping. Introduction.....	11
<i>A. Weintritt & T. Neumann</i>	
Chapter 1. Pollution at Sea, Cargo Safety, Environment Protection and Ecology.....	13
1.1. Overview of Maritime Accidents Involving Chemicals Worldwide and in the Baltic Sea.....	15
<i>J.M. Häkkinen & A.I. Posti</i>	
1.2. Factors Affecting Operational Efficiency of Chemical Cargo Terminals: A Qualitative Approach	27
<i>T.A. Gülcan, S. Esmer, Y. Zorba & G. Şengönül</i>	
1.3. The Parameters Determining the Safety of Sea Transport of Mineral Concentrates	33
<i>M. Popek</i>	
1.4. Determination of the Fire Safety of Some Mineral Fertilizers (3).....	39
<i>K. Kwiatkowska-Sienkiewicz, P. Kutta & E. Kotulska</i>	
1.5. The Ecological Hovercraft – Dream or Reality!.....	45
<i>Z.T. Pagowski & K. Szafran</i>	
1.6. Response to Global Environment Education for Disaster Risk Management: Disaster Preparedness of JBLFMU-Molo, Philippines.....	49
<i>R.A. Alimen, R.L. Pador & C.D. Ortizo</i>	
1.7. Marine Environment Protection through CleanSeaNet within Black Sea	59
<i>S. Berescu</i>	
1.8. Phytoplankton Diversity in Offshore, Port and Ballast Water of a Foreign Vessel in Negros Occidental, Philippines.....	65
<i>B.G.S. Sarinas, M.L.L. ArceLO & L.D. Gellada</i>	
1.9. Study of Trawling Impacts on Diversity and Distribution of Gastropods Communities in North of Persian Gulf Fishing Area	73
<i>M. Shirmohammadi, B. Doustshenas, A. Savari, N. Sakhaei & S. Dehghan Mediseh</i>	
Chapter 2. Gas and Oil Transportation.....	77
2.1. Future Development of Oil Transportation in the Gulf of Finland.....	79
<i>O.-P. Brunila & J. Storgard</i>	
2.2. Possibilities for the Use of LNG as a Fuel on the Baltic Sea.....	87
<i>S. Jankowski</i>	
2.3. Identification of Hazards that Affect the Safety of LNG Carrier During Port Entry	91
<i>P. Gackowski & A. Gackowska</i>	
2.4. The Mooring Pattern Study for Q-Flex Type LNG Carriers Scheduled for Berthing at Ege Gaz Aliaga LNG Terminal.....	97
<i>S. Nas, Y. Zorba & E. Ucan</i>	
2.5. Natural Gas as Alternative Fuel for Vessels Sailing in European Waters	103
<i>J. Pawelski</i>	
Chapter 3. Sea Port and Harbours Development	109
3.1. The Future of Santos Harbour (Brazil) Outer Access Channel.....	111
<i>P. Alfredini, E. Arasaki, A.S. Moreira, C.P. Fournier, P.S.M. Barbosa & W.C. Sousa Jr.</i>	
3.2. Port Safety; Requirements & Economic Outcomes	117
<i>M.A. Hassanzadeh</i>	
3.3. Method of Assessment of Insurance Expediency of Quay Structures’ Damage Risks in Sea Ports.....	123
<i>M.Ya. Postan & M.B. Poizner</i>	
3.4. Solid Waste Management: Compliance, Practices, Destination and Impact among Merchant Vessels Docking in Iloilo Ports	129
<i>B.G.S. Sarinas, L.D. Gellada, M.M. Magramo & D.O. Docto</i>	
3.5. Keeping a Vigilant Eye: ISPS Compliance of Major Ports in the Philippines.....	133
<i>R.R. Somosa, D.O. Docto, M.R. Termez, J.R.P. Flores, V. Lamasan & M.M. Magramo</i>	
3.6. The Using of Extruded Fenders in Yachts Ports.....	139
<i>W. Galor</i>	
3.7. The Positive Implications for the Application of the International Ship & Port Facility Security and its Reflects on Saudi’s Ports.....	143
<i>A. Elentably</i>	

Chapter 4. Dynamic Positioning and Offshore Technology	157
4.1. Verifications of Thrusters Number and Orientation in Ship's Dynamic Positioning Systems <i>J. Herdzik</i>	159
4.2. Underwater Vehicles' Applications in Offshore Industry <i>K.A. Wróbel</i>	165
4.3. Coordinated Team Training for Heavy Lift and Offshore Crane Loading Teams..... <i>A. Oesterle & C. Bornhorst</i>	171
4.4. A Proposal of International Regulations for Preventing Collision between an Offshore Platform and a Ship <i>P. Zhang</i>	175
4.5. Other than Navigation Technical Uses of the Sea Space <i>Z. Otremba</i>	179
Chapter 5. Container Transport	185
5.1. Development of Container Transit from the Iranian South Ports with a Focus on the International North South Transport Corridor <i>M. Haghighi, T. Hassangholi Pour, H. Khodadad Hossani & H. Yousefi</i>	187
5.2. Green Waterborne Container Logistics for Ports..... <i>U. Malchow</i>	195
5.3. The Concept of Modernization Works Related to the Capability of Handling E Class Container Vessels in the Port Gdynia <i>K. Formela & A. Kaizer</i>	201
5.4. Container Transport Capacity at the Port of Koper, Including a Brief Description of Studies Necessary Prior to Expansion <i>M. Perkovic, E. Twrdy, M. Batista & L. Guema</i>	207
Chapter 6. Intermodal Transport	215
6.1. Overview of Intermodal Liner Passenger Connections within Croatian Seaports..... <i>V. Stupalo, N. Jolić & M. Bukljaš Skočibušić</i>	217
6.2. Concept of Cargo Security Assurance in an Intermodal Transportation <i>T. Eghynas, S. Jakovlev, M. Bogdevičius, R. Didžiokas, A. Andziulis & T. Lenkauskas</i>	223
Chapter 7. Propulsion and Mechanical Engineering	227
7.1. Diagnostic and Measurement System for Marine Engines' <i>A. Charchalis</i>	229
7.2. Develop a Condition Based Maintenance Model for a Vessel's Main Propulsion System and Related Subsystems..... <i>M. Anantharaman & N. Lawrence</i>	235
7.3. Experimental Analysis of Podded Propulsor on Naval Vessel <i>M.P Abdul Ghani, O. Yaakob, N. Ismail, A.S.A Kader, A.F Ahmad Sabki & P. Singaravelo</i>	239
7.4. Modern Methods of the Selection of Diesel Engines Injector Nozzles Parameters..... <i>M. Idzior</i>	243
7.5. The Assessment of the Application of the CFD Package OpenFOAM to Simulating Flow Around the Propeller..... <i>T. Gornicz & J. Kulczyk</i>	247
7.6. On the Characteristics of the Propulsion Performance in the Actual Sea <i>J. Kayano, H. Yabuki, N. Sasaki & R. Hiwatashi</i>	253
7.7. Engine Room Simulator (ERS) Training Course: Practicability and Essentiality Onboard Ship <i>R.A. Alimen</i>	259
7.8. Contribution to Treatment System Deformed Highlighted a Network Connection Point of Medium and High Voltage <i>V. Ciucur</i>	263
Chapter 8. Hydrodynamics and Ship Stability	269
8.1. Prognostic Estimation of Ship Stability in Extreme Navigation Conditions <i>S. Moiseenko, L. Meyler & O. Faustova</i>	271
8.2. The Values and Locations of the Hydrostatic and Hydrodynamic Forces at Hull of the Ship in Transitional Mode..... <i>O.O. Kanifolskyi</i>	277
8.3. Contrary Hydrodynamical Interactions Between the Model and Prototype of Boats..... <i>A. Şalci</i>	281
8.4. New Methods of Measuring the Motion (6DOF) and Deformation of Container Vessels in the Sea <i>D. Kowalewski, F. Heinen & R. Galas</i>	289

8.5. Hybrid Bayesian Wave Estimation for Actual Merchant Vessels	293
<i>T. Iseki, M. Baba & K. Hirayama</i>	
8.6. Modelling Studies of the Roll and the Pitch Training Ship	299
<i>W. Mironiuk & A. Pawłędzio</i>	
8.7. The Dynamic Heeling Moment Due to Liquid Sloshing in Partly Filled Wing Tanks for Varying Rolling Period of Seagoing Vessels	303
<i>P. Krata, J. Jachowski, W. Wawrzyński & W. Więckiewicz</i>	
8.8. Safety Studies for Laker Bulker Trans-pacific Delivery Voyage	311
<i>G. Mazerski</i>	
Author index	319