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A holistic view of maritime navigation accidents and risk indicators: examining IMO reports from 2011 to 2021

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Abstract

This paper investigated the risk indicators in maritime accidents and how they are considered within the reporting of maritime accidents, drawing on ten years of International Maritime Organisation (IMO) (2011–2020) accident reports. It highlighted the lack of consistent findings in studies exploring the role of vessel characteristics in maritime accidents, which often result from different methods, databases, techniques and motivations used by each respective study for gathering and analysing data. Furthermore, as human error continues to be highlighted as the top-cited cause of accidents, this study examined the qualitative content of IMO accident reports in-depth to broaden our understanding of maritime accident risk factors. Using a data-driven approach, statistical (ANOVA) and advanced text-mining techniques (using IRAMUTEQ software) were applied to extract meaning from the semi-structured and unstructured narrative descriptions that constitute most of the national administrations' investigation reports to the IMO. Building on the text analysis of the IMO accident data, we proposed the Accident Maritime Ecosystem framework, which incorporates individuals, the ship organisation (on board), the internal ship ecosystem (on board and onshore), the external ship ecosystem (external factors) and the global maritime ecosystem (policies and regulations); moreover, it identifies these entities as risk factors in maritime accidents. The findings illustrate how accident reporting is largely human-centric and that as maritime transportation is becoming increasingly complex, there is a need for policy and organisational decision-makers to incorporate a broader scope of actors when considering maritime risk factors, which can be achieved by using the AARE framework as a guideline.

Keywords: IMO accident reports, Maritime ecosystem, IRAMUTEQ, Risk indicators

Introduction

The COVID-19 pandemic directly impacted the maritime transportation sector with serious ramifications for global supply chains. This was perfectly illustrated in the case of the accident involving the MV Ever Given, which played out in the full glare of the public around the world. The 220,000 dwt ton container ship, carrying billions of dollars' worth of cargo, ran aground in the Suez canal in March 2021 during high winds and poor weather (Guardian 2021a). This massive container ship blocked the world's busiest

Methods To Quantify Maritime Accidents For Risk Based

Carlos Guedes Soares



Methods To Quantify Maritime Accidents For Risk Based:

Marine Structural Design Yong Bai, Wei-Liang Jin, 2015-09-18 Marine Structural Design Second Edition is a wide ranging practical guide to marine structural analysis and design describing in detail the application of modern structural engineering principles to marine and offshore structures Organized in five parts the book covers basic structural design principles strength fatigue and fracture and reliability and risk assessment providing all the knowledge needed for limit state design and re assessment of existing structures Updates to this edition include new chapters on structural health monitoring and risk based decision making arctic marine structural development and the addition of new LNG ship topics including composite materials and structures uncertainty analysis and green ship concepts Provides the structural design principles background theory and know how needed for marine and offshore structural design by analysis Covers strength fatigue and fracture reliability and risk assessment together in one resource emphasizing practical considerations and applications Updates to this edition include new chapters on structural health monitoring and risk based decision making and new content on arctic marine structural design

Trends in Collision and Grounding of Ships and Offshore Structures Ling Zhu, C. Guedes Soares, 2025-08-29 This compilation of papers describes the latest research results and innovations presented at the 10th International Conference on Collision and Grounding of Ships and Offshore Structures ICCGS 2025 Shanghai China 16 19 September 2025 The contributions cover a wide range of topics including behaviour of vessels in collision and grounding collision and grounding experiments behaviour of structures and materials under impact loadings ultimate strength of ship structures and components new designs for structural improvement risk assessment and innovative navigation systems collision between ships and offshore structures This publication is an important tool for academics engineers and professionals involved in developing new trends in collision and grounding of ships and offshore structures The Proceedings in Marine Technology and Ocean Engineering series is devoted to the publication of proceedings of peer reviewed international conferences dealing with various aspects of marine technology and ocean engineering The series includes the proceedings of the following conferences the Marine Structures MARSTRUCT Conferences the Renewable Energies Offshore RENEW Conferences the Maritime Technology MARTECH Conferences the Collision and Grounding of Ships and Offshore Structures ICCGS Conferences and the International Maritime Association of the Mediterranean IMAM Conferences

Advances in Maritime Technology and Engineering Carlos Guedes Soares, Tiago A. Santos, 2024-05-08 Advances in Maritime Technology and Engineering comprises a collection of the papers presented at the 7th International Conference on Maritime Technology and Engineering MARTECH 2024 held in Lisbon Portugal on 14 16 May 2024 This Conference has evolved from the series of biannual national conferences in Portugal which have become an international event reflecting the internationalization of the maritime sector and its activities MARTECH 2024 is the seventh of this new series of biannual conferences This book comprises 142 contributions that were reviewed by an International Scientific

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Collision and Grounding of Ships and Offshore Structures Jorgen Amdahl, Sören Ehlers, Bernt Johan

Leira, 2013-05-14. Collision and Grounding of Ships and Offshore Structures contains the latest research results and innovations presented at the 6th International Conference on Collision and Grounding of Ships and Offshore Structures, Trondheim, Norway, 17-19 June 2013. The book comprises contributions made in the field of numerical and analytical analysis of Animal Welfare in Animal Agriculture. Wilson G. Pond, Fuller W. Bazer, Bernard E. Rollin, 2011-11-23. What constitutes animal welfare? With animals being used for companionship, service, research, food, fiber, and by-products, animal welfare is a topic of great interest and importance to society. As the world's population continues to increase, a major challenge for society is the maintenance of a strong and viable food system, which is linked to the well-being and comfort of food animals. Animal Welfare in Animal Agriculture: Husbandry, Stewardship, and Sustainability in Animal Production explores the pressing issue of farm animal welfare in animal production systems in the United States and globally. A framework for open discussion on animal welfare, this multidisciplinary book brings together the perspectives of 40 highly qualified and recognized experts in their respective fields. Fourteen chapters address a range of topics that includes ethics, sociology, food safety, ecology, feed resources, biotechnology, government regulations, and sustainability, as well as animal comfort, health, and contributions to society. The book also offers a historical perspective on the growth of animal agriculture from family farms to industrial animal agriculture and the impact this has had on society. Illustrating the diversity of viewpoints, the concept of animal welfare is defined from the perspectives of an ethicist and philosopher, a research scientist, a veterinarian, an industrialist, and an activist, as well as from the perspective of sustainability and product quality. Written primarily for students but also highly relevant for professionals in varying fields of academia and industry, this timely book reveals important insights into animal

welfare and animal agriculture Unique in its depth breadth and balance it underscores the need for dialogue on wide ranging and often contentious issues related to animal production systems

Developments in the Collision and Grounding of Ships and Offshore Structures Carlos Guedes Soares,2019-10-11 Developments in the Collision and Grounding of Ships and Offshore includes the contributions to the 8th International Conference on Collision and Grounding of Ships and Offshore Structures ICCGS 2019 Lisbon Portugal 21 23 October 2019 The series of ICCGS conferences started in 1996 in San Francisco USA and are organised every three years in Europe Asia and the Americas Developments in the Collision and Grounding of Ships and Offshore covers a wide range of topics from the behavior of large passenger vessels in collision and grounding collision and grounding in arctic conditions including accidental ice impact stability residual strength and oil outflow of ships after collision or grounding collision and grounding statistics and predictions and measures of the probability of incidents risk assessment of collision and grounding prediction and measures for reduction of collision and grounding new designs for improvement of structural resistance to collisions analysis of ultimate strength of ship structures bulkheads tank tops shell etc design of buffer bows to reduce collision consequences design of foreship structures of ferries with doors to avoid water ingress in case of a collision development of rational rules for the structural design against collision and grounding innovative navigation systems for safer sea transportation the role of IMO classification societies and other regulatory bodies in developing safer ships collision between ships and offshore structures collision between ships and fixed or floating bridges and submerged tunnels collision with quays and waterfront structures collision and grounding experiments properties of marine use materials under impact loadings residual strength of damaged ships and offshore structures analysis of ultimate strength of ship structures to human factors in collision and grounding accidents

Developments in the Collision and Grounding of Ships and Offshore is a valuable resource for academics engineers and professionals involved in these areas

Hydraulics in Civil and Environmental Engineering, Fifth Edition Andrew Chadwick,John Morfett,Martin Borthwick,2013-03-18 Now in its fifth edition Hydraulics in Civil and Environmental Engineering combines thorough coverage of the basic principles of civil engineering hydraulics with wide ranging treatment of practical real world applications This classic text is carefully structured into two parts to address principles before moving on to more advanced topics The first part focuses on fundamentals including hydrostatics hydrodynamics pipe and open channel flow wave theory physical modeling hydrology and sediment transport The second part illustrates the engineering applications of these fundamental principles to pipeline system design hydraulic structures and river canal and coastal engineering including up to date environmental implications A chapter on computational hydraulics demonstrates the application of computational simulation techniques to modern design in a variety of contexts What s New in This Edition Substantive revisions of the chapters on hydraulic machines flood hydrology and computational modeling New material added to the chapters on hydrostatics principles of fluid flow behavior of real fluids open channel flow pressure surge in

pipelines wave theory sediment transport river engineering and coastal engineering The latest recommendations on climate change predictions impacts and adaptation measures Updated references Hydraulics in Civil and Environmental Engineering Fifth Edition is an essential resource for students and practitioners of civil environmental and public health engineering and associated disciplines It is comprehensive fully illustrated and contains many worked examples Spreadsheets and useful links to other web pages are available on an accompanying website and a solutions manual is available to lecturers

ITF Round Tables Terrorism and International Transport Towards Risk-based Security Policy International Transport Forum,OECD,2009-05-19 This Round Table examines the contribution economic analysis can make to improving security in aviation and maritime shipping by quantifying the benefits of security measures and assessing their effectiveness and examining techniques to allocate resources to target the highest risks

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Application of Fluid Dynamics in the Safe Design of Topsides and Superstructures ,1997

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Marine Technology IV C. A. Brebbia,T. Graczyk,T. Jastrzebski,2001 Marine technology is experiencing rapid change particularly in the areas of ship design building and operation New technologies not only have to be developed but also quickly incorporated and put into use in order for the various organizations involved to remain competitive Containing papers presented at the Fourth International Conference on Marine Technology this volume reviews both traditional and improved techniques in the design building and operation of ships and also describes research and development taking place in such areas as new and lighter materials robotics ergonomics and environmental concerns

Strength of Ships and Ocean Structures Alaa Mansour,Donald Liu,2008 This volume addresses several topics of ship strength in greater depth than in the previous edition of PNA bringing much of the material up to date and introducing some new subjects There is extensive coverage of the latest developments in dynamic sea load predictions including nonlinear load effects slamming and impact plus new sections on the mechanics of collisions and grounding

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Design and Operation of Double Hull Tankers Royal Institution of Naval Architects,2004

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