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*Marpol Consolidated
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Since 2007, the biennial
International Conferences on
Dynamics in Logistics (LDIC)
offers researchers and

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practitioners from
logistics, operations
research, production,
industrial and electrical
engineering as well as from
computer science an
opportunity to meet and to
discuss the latest

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developments in this particular research domain. From February 12th to 14th 2020 for the seventh time, LDIC 2020 is held in Bremen, Germany. Similar to its six predecessors, the Bremen Research Cluster for

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Dynamics in Logistics
(LogDynamics) organizes this
conference. The spectrum of
topics reaches from the
dynamic modeling, planning
and control of processes
over supply chain management
and maritime logistics to

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innovative technologies and robotic applications for cyber-physical production and logistics systems. LDIC 2020 provides a forum for the discussion of advances in that matter. The conference program consists

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of three invited keynote speeches and 51 papers selected by a severe double-blind reviewing process. Within these proceedings all the papers are published. By this, the proceedings give an interdisciplinary outline

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on the state of the art of dynamics in logistics as well as identify challenges and solutions for logistics today and tomorrow.

REVISED MARPOL ANNEX VI -
Regulations for the
Prevention of AirPollution

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from Ships- AND NOx
TECHNICAL CODE 2008, 2009
Edition - following three
years of extensive work,
IMO's Marine Environment
Protection Committee adopted
in October 2008 the revised
regulations for the

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prevention of air pollution from ships, which enter into force on 1 July 2010. This publication features: the revised MARPOL Annex VI, the revised regulations on prevention of air pollution from ships engaged in

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international trade,
including emissions limits
and operational requirements
for prevention of harmful
emissions of ships' exhaust
and cargo vapours. The NOx
Technical Code 2008, which
is made mandatory under

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MARPOL Annex VI for all marine diesel engines with a power output of 130 kW or more and provides the requirements for testing, survey and certification of marine diesel engines. The Standard specification for

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shipboard incinerators, as well as other relevant information on prevention of air pollution from ships. It also includes a preview of future IMO work by in the field of preventing harmful emissions from ships.

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With advances in technology and maritime transport, human use of the ocean now extends beyond the traditional activities of navigation and fishing. Emerging activities such as bioprospecting, deep seabed

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mineral and hydrocarbon
exploration and
exploitation, offshore
renewable energy
developments and marine
scientific probes of deep
sea areas challenge the
applicability of maritime

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law and policy in new ways. This handbook examines current regulatory and enforcement instruments and mechanisms for different sectors of maritime activity. Covering various jurisdictions, its specially

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commissioned chapters are authored by some of the world's foremost authorities on maritime law, and offer unique perspectives on maritime law, policy and practice. This highly relevant collection is

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organised into four parts: •
International Law
Considerations in Maritime
Regulation and Enforcement •
Role of States and other
International Actors in
Maritime Regulation and
Enforcement • Regulation and

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Enforcement in Different
Maritime Sectors • Current
Issues and Future Challenges
This comprehensive reference
work will be of interest to
scholars and students of
maritime law, practitioners
and non-lawyers interested

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in the regulation of offshore areas, as well as policy-makers.

This comprehensive volume of the Elgar Encyclopedia of Environmental Law provides an overview of the major elements of energy law from

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a global perspective. Based on an in-depth analysis of the energy chain, it offers insight into the impacts of climate change and environmental issues on energy law and the energy sector. This timely

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reference work highlights the need for modern energy law to consider environmental impacts and promote the use of clean energy sources, whilst also safeguarding a reliable and affordable energy supply.

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Marpol

Imo 2020

Marine Pollution Control
Dynamics in Logistics

Annex V

Revised MARPOL Annex VI

Legal Framework for
Combating Threats and Crises

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This book provides practical solutions for addressing energy efficiency as a clause term within a charter party contract. For this, upon a reflection of the regulatory craft, it analyzes key concepts of case law, and discusses them together with commercial and economic principles. In this way, the

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book aims at offering a comprehensive, interdisciplinary view of the chartering process, together with a new approach for safeguarding energy efficiency investments. A special emphasis is given to the maritime industry. Here, the newly developed framework, based on

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game theory, has been successfully applied to demonstrate the importance of including a clause term in contract negotiation to achieve protection against both an uncertain market and an even more challenging shipping environment. The book not only fills a gap in the literature,

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covering a topic that has been largely neglected to date, yet it offers researchers and practitioners extensive information to change the chartering process radically.

This volume contains a selection of papers presented at the 13th International Conference on Marina

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Navigation and Safety of Sea Transport and is addressed to scientists and professionals in order to share their expert knowledge, experience and research results concerning all aspects of navigation, safety of navigation and sea transportation. The Thirteen Edition

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of the most innovative World conference on maritime transport research is designed to find solutions to challenges in waterborne transport, navigation and shipping, mobility of people and goods with respect to energy, infrastructure, environment, safety and security as

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well as to economic issues.

The International Convention for the Prevention of Pollution from Ships, 1973 (MARPOL Convention), is concerned with preserving the marine environment through the prevention of pollution by oil and other harmful substances and the

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minimization of accidental discharge of such substances. Its technical content is laid out in six Annexes, the first five of which were adopted by the 1973 Convention, as modified by a 1978 Protocol. These Annexes cover pollution of the sea by oil, by noxious liquid substances in bulk, by

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harmful substances in packaged form, by sewage from ships, and by garbage from ships. Annex VI was adopted by a further Protocol in 1997 and covers air pollution from ships. This edited book looks at recent studies on interdisciplinary research related to exergy, energy, and the

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environment. This topic is of prime significance – there is a strong need for practical solutions through better design, analysis and assessment in order to achieve better efficiency, environment and sustainability.

Exergetic, Energetic and
Environmental Dimensions covers a

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number of topics ranging from thermodynamic optimization of energy systems, to the environmental impact assessment and clean energy, offering readers a comprehensive reference on analysis, modeling, development, experimental investigation, and improvement of

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many micro to macro systems and applications, ranging from basic to advanced categories. Its comprehensive content includes: Comprehensive coverage of development of systems considering exergy, energy, and environmental issues, along with the most up-to-

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date information in the area, plus recent developments New developments in the area of exergy, including recent debate involving the shaping of future directions and priorities for better environment, sustainable development and energy security Provides a number of

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illustrative examples, practical applications, and case studies
Introduces recently developed technological and strategic solutions and engineering applications for professionals in the area Provides numerous engineering examples and applications on exergy Offers a

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variety of problems that foster critical thinking and skill development
Consistent Implementation of
MARPOL Annex VI
SOLAS, Consolidated Edition 2014
Consolidated Text of the International
Convention for the Safety of Life at
Sea, 1974, and Its Protocol of 1988 :

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Articles, Annexes and Certificates
Transportation Engineering
Ballast Water Management
Ship Design
Condition Assessment Scheme
*Of all the international
conventions dealing with
maritime safety, the most*

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important is the International Convention for the Safety of Life at Sea, 1974, as amended, better known as SOLAS, which covers a wide range of measures designed to improve the safety of shipping. The

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Convention is also one of the oldest of its kind: the first version was adopted in 1914 following the sinking of the Titanic with the loss of more than 1,500 lives. Since then there have been four more versions of SOLAS.

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The present version was adopted in 1974 and entered into force in 1980. In order to provide an easy reference to all SOLAS requirements applicable from 1 July 2014, this edition presents a consolidated text of the

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*SOLAS Convention, its
Protocols of 1978 and 1988
and all amendments in effect
from that date. The SOLAS
Consolidated Edition 2014 is
an essential reference for
maritime administrations,
ship manufacturers, owners*

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and operators, shipping companies, education institutes and all others concerned with requirements of the International Convention for the Safety of Life at Sea.

In today's developing world,

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international trade is a field that is rapidly growing. Within this economic market, traders need to implement new approaches in order to satisfy consumers' rising demands. Due to the high

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*level of competition,
merchants have focused on
developing new
transportation and logistics
strategies. In order to
execute effective
transportation tactics,
decision makers need to know*

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*the fundamentals, current
developments, and future
trends of intercontinental
transportation. The Handbook
of Research on the
Applications of
International Transportation
and Logistics for World*

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Trade provides emerging research exploring the effective and productive solutions to global transportation and logistics by applying fundamental and in-depth knowledge together with current applications

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and future aspects.

Featuring coverage on a broad range of topics such as international regulations, inventory management, and distribution networks, this book is ideally designed for

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*logistics authorities,
trading companies, logistics
operators, transportation
specialists, government
officials, managers,
policymakers, researchers,
academicians, and students.
The International Code on*

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Intact Stability 2008 (2008 IS Code), presents mandatory and recommendatory stability criteria and other measures for ensuring the safe operation of ships, to minimize the risk to such ships, to the personnel on

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*board and to the
environment. The 2008 IS
Code took effect on 1 July
2010. The 2008 IS Code
features: a full update of
the previous IS Code;
criteria based on the best
state-of-the-art concepts*

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available at the time they were developed, taking into account sound design and engineering principles and experience gained from operating ships; influences on intact stability such as the dead ship condition,

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wind on ships with large windage area, rolling characteristics and severe seas. This publication also presents Explanatory Notes to the 2008 IS Code, intended to provide administrations and the

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*shipping industry with
specific guidance to assist
in the uniform
interpretation and
application of the intact
stability requirements of
the 2008 IS Code.
Supersedes previous*

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*consolidated edition
Guidelines for Ships
Operating in Polar Waters
Guidelines for the
Implementation of MARPOL
MARPOL Consolidated Edition
2011*

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*Energy Efficiency Clauses in
Charter Party Agreements
EU Management of Global
Emergencies
Toxicology and Risk
Assessment*

The Condition Assessment
Scheme (CAS) for oil tankers

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was adopted in 2001 and is applicable to all single-hull tankers of 15 years or older. Although the CAS does not specify structural standards in excess of the provisions of other IMO conventions, codes

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and recommendations, its requirements stipulate more stringent and transparent verification of the reported structural condition of the ship and that documentary and survey procedures have been

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properly carried out and completed. The Scheme requires that compliance with the CAS is assessed during the Enhanced Survey Program of Inspections concurrent with intermediate or renewal

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surveys currently required by resolution A.744(18), as amended.--Publisher's description.

MARPOL VI was developed through the International Maritime Organization (IMO), a

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United Nations agency that deals with maritime safety and security, as well as the prevention of marine pollution from ships. MARPOL is the main international agreement covering all types of pollution

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from ships. Annex VI aims to reduce emissions from ships through international regulations. Regulation 14 - Restricts SOx emissions from ships by introducing a maximum sulphur content in

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marine fuels of 4.5 per cent. In addition, MARPOL Annex VI identifies SOx emission control areas (SECA)

This book focuses on the interaction between shipping and the natural environment

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and how shipping can strive to become more sustainable. Readers are guided in marine environmental awareness, environmental regulations and abatement technologies to assist in decisions on strategy,

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policy and investments. You will get familiar with possible paths to improve environmental performance and, in the long term, to a sustainable shipping sector, based on an understanding of

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the sources and mechanisms of common impacts. You will also gain knowledge on emissions and discharges from ships, prevention measures, environmental regulations, and methods and tools for

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environmental assessment. In addition, the book includes a chapter on the background to regulating pollution from ships. It is intended as a source of information for professionals connected to maritime

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activities as well as policy makers and interested public. It is also intended as a textbook in higher education academic programmes. Ships operating in the Arctic and Antarctic environments are

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exposed to a number of unique risks. Poor weather conditions and the relative lack of good charts, communication systems and other navigational aids pose challenges for mariners. The remoteness of

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the areas makes rescue or clean-up operations difficult and costly. Cold temperatures may reduce the effectiveness of numerous components of the ship, ranging from deck machinery and emergency

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equipment to sea suction. When ice is present, it can impose additional loads on the hull, propulsion system and appendages. The Guidelines for ships operating in polar waters aim at mitigating the additional

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risk imposed on shipping in the harsh environmental and climatic conditions that exist in polar waters. This publication should be of interest to maritime administrations, ship manufacturers, shipping

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companies, cruise and tour operators, education institutes and others concerned with the safe operation of ships in polar waters.

International Marine Economy
International Code on Intact

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Stability, 2008

New Technologies for Emission
Control in Marine Diesel
Engines

Ship and Mobile Offshore Unit
Automation

Routledge Handbook of

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Maritime Regulation and
Enforcement
Maritime Facts and Figures
Legal and Economic
Perspectives and their
Application to Ocean Grain
Transport

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The International Convention for the Prevention of Pollution from Ships, 1973 (MARPOL Convention), is concerned with preserving the marine environment through the prevention of pollution by oil and

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other harmful substances and the minimization of accidental discharge of such substances. Its technical content is laid out in six Annexes, the first five of which were in the 1973 Convention, as modified by the

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1978 Protocol, and cover pollution of the sea by oil, by noxious liquid substances in bulk, by harmful substances in packaged form, by sewage from ships and by garbage from ships. Annex VI was adopted by the

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1997 Protocol and covers air
pollution from ships

This book deals with ship design
and in particular with
methodologies of the preliminary
design of ships. The book is
complemented by a basic

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bibliography and five appendices with useful updated charts for the selection of the main dimensions and other basic characteristics of different types of ships (Appendix A), the determination of hull form from the data of

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systematic hull form series (Appendix B), the detailed description of the relational method for the preliminary estimation of ship weights (Appendix C), a brief review of the historical evolution of

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shipbuilding science and technology from the prehistoric era to date (Appendix D) and finally a historical review of regulatory developments of ship's damage stability to date (Appendix E). The book can be

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used as textbook for ship design courses or as additional reading for university or college students of naval architecture courses and related disciplines; it may also serve as a reference book for naval architects, practicing

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engineers of related disciplines and ship officers, who like to enter the ship design field systematically or to use practical methodologies for the estimation of ship's main dimensions and of other ship main properties and

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elements of ship design.
This book focuses on the
management of ship operations,
an activity that requires
integrative knowledge and
technical expertise that spans
various disciplines. As such, ship

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operations personnel are expected to be well-versed with aspects of management, economics, engineering, technology and law. Further, ship operations management requires the ability to identify and

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neutralize threats and to manage risks and make decisions that will optimize costs and contribute to performance improvements. Despite the fundamental nature of ship operations management, no book has ever attempted to

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reconcile and compile a comprehensive body of knowledge, while pursuing a coherent, structured and systematic approach. This edited volume addresses that fundamental gap in the extant

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literature, and brings together a wealth of knowledge from experts in their respective fields. Concretely, it explores issues of organization, technical management, crewing and behavioral issues, chartering and

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post fixture, risk management, finance, legal aspects of international conventions and regulations, attainment of safety, security and marine insurance, as well as ocean governance and sustainability. As such, the

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book offers a vital reference guide for maritime companies and organizations, while also serving as a teaching supplement in academic and professional maritime programmes.

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Transportation Engineering:
Theory, Practice and Modeling,
Second Edition presents
comprehensive information
related to traffic engineering and
control, transportation planning
and evaluation of transportation

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alternatives. The book systematically deals with almost the entire transportation engineering area, offering various techniques related to transportation modeling, transportation planning, and

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traffic control. It also shows readers how to use models and methods when predicting travel and freight transportation demand, how to analyze existing transportation networks, how to plan for new networks, and how

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to develop traffic control tactics and strategies. New topics addressed include alternative Intersections, alternative interchanges and individual/private transportation. Readers will also learn how to

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utilize a range of engineering concepts and methods to make future transportation systems safer, more cost-effective, and "greener". Providing a broad view of transportation engineering, including transport

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infrastructure, control methods and analysis techniques, this new edition is for postgraduates in transportation and professionals needing to keep up-to-date with the latest theories and models. Covers all forms of

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transportation engineering,
including air, rail, road and public
transit modes Examines different
transportation modes and how to
make them sustainable Features
a new chapter covering the
reliability, resilience, robustness

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and vulnerability of transportation
systems

Shipping Operations

Management

Electric Systems for

Transportation

The Potential and Limits of the

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International Maritime
Organisation
Index of IMO Resolutions
Improving Environmental
Performance in Marine
Transportation
Advances in Marine Navigation

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and Safety of Sea Transportation
Maritime Economics

**Ship management has
constantly had to evolve to
take into account the
advancements in technology
as well as the demands of**

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**the shipping industry.
Having internet access and
email on board ship has
meant that the ship
manager has to possess
certain sets of skills to
function effectively in the**

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post, including computer literacy. The emergence of large multi-national ship management companies has also changed how business is conducted and this in turn means that the ship

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manager and tiers of management within the organization have had to evolve to cope with the demands of working with a multi-national workforce. Furthermore, since the

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mid-1980s there has been an ever expanding raft of legislation that is more restrictive for companies to meet, and a shrinking of profit margins has seen a shift in how companies are

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required to operate to survive. This book addresses the demands of 21st century ship management with the focus of the book as much about the people who manage ships as about the

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**theory and practice of ship
management.**

**Recoge: 1. Why look at the
oceans in an integrated
manner? - 2. Geography and
population - 3. Coastal
regions - 4. The maritime**

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**economy - 5. Governance -
6. The maritime
environment - 7. Maritime
heritage.**

**This book contains a
selection of articles from
The 2015 World Conference**

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**on Information Systems and
Technologies
(WorldCIST'15), held
between the 1st and 3rd of
April in Funchal, Madeira,
Portugal, a global forum for
researchers and**

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practitioners to present and discuss recent results and innovations, current trends, professional experiences and challenges of modern Information Systems and Technologies research,

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**technological development
and applications. The main
topics covered are:
Information and Knowledge
Management; Organizational
Models and Information
Systems; Intelligent and**

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**Decision Support Systems;
Big Data Analytics and
Applications; Software
Systems, Architectures,
Applications and Tools;
Multimedia Systems and
Applications; Computer**

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**Networks, Mobility and
Pervasive Systems; Human-
Computer Interaction;
Health Informatics;
Information Technologies in
Education; Information
Technologies in Radio**

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**communications.
Ship and Mobile Offshore
Unit Automation: A Practical
Guide: A Practical Guide
gives engineers a much-
needed reference on
relevant standards and**

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codes, along with practical case studies on how to use these standards on actual projects and plans. Packed with the critical procedures necessary for each phase of the project, the book also

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gives an outlook on trends of development for control and monitoring systems, including usage of artificial intelligence in software development and prospects for the use of autonomous

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vessels. Rounding out with a glossary and introductory chapter specific to the new marine engineer just starting, this book delivers a source of valuable information to help offshore

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**engineers be better
prepared to safely and
efficiently design today's
offshore unit control
systems. Helps readers
understand the worldwide
offshore unit regulations**

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**necessary for monitoring
systems and automation
installation, including ISO,
IEC, IEEE, IMO, SOLAS AND
MODU, ABS, DNVGL, API,
NMA and Norsok Presents
real-world examples that**

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**apply standards Provides
tactics on how to procure
control and monitoring
systems specific to the
offshore industry
Proceedings of the 7th
International Conference**

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**LDIC 2020, Bremen,
Germany
Exergetic, Energetic and
Environmental Dimensions
Volume 2
Methodologies of
Preliminary Design**

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**Legal and Managerial
Frameworks
Consolidated Text of the
International Convention for
the Safety of Life at Sea,
1974, and Its Protocol of
1988, Articles, Annexes and**

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**Certificates, Incorporating
All Amendments in Effect
from 1 January 2020
Shipping and the
Environment**

**Now in its second edition Maritime
Economics provides a valuable**

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introduction to the organisation and workings of the global shipping industry. The author outlines the economic theory as well as many of the operational practicalities involved. Extensively revised for the new edition, the book has many clear illustrations and tables. Topics covered include: * an

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**overview of international trade *
Maritime Law * economic organisation
and principles * financing ships and
shipping companies * market research
and forecasting.**

**SOLAS, Consolidated Edition
2014 Consolidated Text of the
International Convention for the Safety**

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**of Life at Sea, 1974, and Its Protocol of
1988 : Articles, Annexes and
Certificates**

**Ocean and coastal law has grown
rapidly in the past three decades as a
specialty area within natural resources
law and environmental law. The
protection of oceans has received**

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increased attention in the past decade because of sea-level rise, ocean acidification, the global overfishing crisis, widespread depletion of marine biodiversity such as marine mammals and coral reefs, and marine pollution. Paralleling the growth of ocean and coastal law, climate change regulation

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has emerged as a focus of international environmental diplomacy, and has gained increased attention in the wake of disturbing and abrupt climate change related impacts throughout the world that have profound implications for ocean and coastal regulation and marine resources. Climate Change

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Impacts on Ocean and Coastal Law effectively unites these two worlds. It raises important questions about whether and how ocean and coastal law will respond to the regulatory challenges that climate change presents to resources in the oceans and coasts of the U.S. and the world. This

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comprehensive work assembles the insights of global experts from academia and major NGOs (e.g., Center for International Environmental Law, Ocean Conservancy, and Environmental Law Institute) to address regulatory challenges from the perspectives of U.S. law, foreign domestic law, and

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international law.

In 1974, a scientific conference covering marine automation group and large vessels issues was organized under the patronage of the Technical Naval Studies Centre (CETENA) and the Italian National Research Council (CNR). A later collaboration with the

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Marine Technical Association (ATENA) led to the renaming of the conference as NAV, extending the topics covered to the technical field previously covered by ATENA national conferences. The NAV conference is now held every 3 years, and attracts specialists from all over the world. This book presents the

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proceedings of NAV 2018, held in Trieste, Italy, in June 2018. The book contains 70 scientific papers, 35 technical papers and 16 reviews, and subjects covered include: comfort on board; conceptual and practical ship design; deep sea mining and marine robotics; protection of the environment;

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renewable marine energy; design and engineering of offshore vessels; digitalization, unmanned vehicles and cyber security; yacht and pleasure craft design and inland waterway vessels. With its comprehensive coverage of scientific and technical maritime issues, the book will be of interest to all those

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**involved in this important industry.
Prevention of Pollution of the Marine
Environment from Vessels
A Comprehensive Introduction
Including Amendments Adopted by the
MEPC at Its Forty-third Session (28
June to 2 July 1999) and by the
Assembly at Its Twenty-first Session (15**

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to 26 November 1999)

**Articles, Protocols, Annexes, Unified
Interpretations of the International
Convention for the Prevention of
Pollution from Ships, 1973, as Modified
by the 1978 and 1997 Protocols
Master and Chief Mate**

Articles, Protocols, Annexes, Unified

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**Interpretations of the International
Convention for the Prevention of
Pollution from Ships, 1973, As
Modified by the Protocol of 1978
Relating Thereto**

U.S. and International Perspectives
The Marine Environment Protection
Committee (MEPC) of IMO, at its sixty-

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second session in July 2011, adopted the Revised MARPOL Annex V, concerning Regulations for the prevention of pollution by garbage from ships, which enters into force on 1 January 2013. The associated guidelines which assist States and industry in the implementation of MARPOL Annex V have been reviewed and updated and two

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Guidelines were adopted in March 2012 at MEPC's sixty-third session. The 2012 edition of this publication contains: the 2012 Guidelines for the implementation of MARPOL Annex V (resolution MEPC.219(63)); the 2012 Guidelines for the development of garbage management plans (resolution MEPC.220(63)); and the

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Revised MARPOL Annex V (resolution MEPC.201(62)).

New Technologies for Emission Control in Marine Diesel Engines provides a unique overview on marine diesel engines and aftertreatment technologies that is based on the authors ' extensive experience in research and development of emission

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control systems, especially plasma aftertreatment systems. The book covers new and updated technologies, such as combustion improvement and after treatment, SCR, the NOx reduction method, Ox scrubber, DPF, Electrostatic precipitator, Plasma PM decomposition, Plasma NOx reduction, and the Exhaust gas

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recirculation method. This comprehensive resource is ideal for marine engineers, engine manufacturers and consultants dealing with the development and implementation of aftertreatment systems in marine engines. Includes recent advances and future trends of marine engines
Discusses new and innovative emission

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technologies for marine diesel engines and their regulations Covers aftertreatment technologies that are not widely applied, such as catalysts, SCR, DPF and plasmas Transportation systems play a major role in the reduction of energy consumptions and environmental impact all over the world. The significant amount of energy of

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transport systems forces the adoption of new solutions to ensure their performance with energy-saving and reduced environmental impact. In this context, technologies and materials, devices and systems, design methods, and management techniques, related to the electrical power systems for transportation are continuously improving

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breaking industry. The IMO, a United Nations specialized agency, has been entrusted with the duty to provide machinery for cooperation among governments for the prevention and control of pollution of the marine environment from vessels. The

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Code) and in the International Code for the Construction and Equipment of Ships Carrying Liquefied Gases in Bulk (IGC Code) to the extent that is practicable and reasonable taking into account the unique design features and service

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including P & I Clubs and
limitation of liability;
involvement of the flag
State, coastal State and
port State; industry best
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