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**The Sperry Gyro-Compass** Sep 30 2020 DigiCat Publishing presents to you this special edition of "The Sperry Gyro-Compass" by Sperry Gyroscope Company. DigiCat Publishing considers every written word to be a legacy of humankind. Every DigiCat book has been carefully reproduced for republishing in a new modern format. The books are available in print, as well as ebooks. DigiCat hopes you will treat this work with the acknowledgment and passion it deserves as a classic of world literature.

[The Motor Ship](#) Jul 21 2022

[Maritime-Port Technology and Development](#) Dec 02 2020 Maritime-Port Technology and Development contains the latest research results and innovations as presented at the 2014 International Maritime and Port Technology and Development Conference (Trondheim, Norway, 27- 29 October 2014). The volume is divided into a wide range of topics: Efficient and environmentally friendly energy use in ships and port **Advances in Marine Navigation and Safety of Sea Transportation** Nov 13 2021 This volume contains a selection of papers presented at the 13th International Conference on Marina 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 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 well as to economic issues.

**Ships and Shipping of Tomorrow** Jun 08 2021 Looks at possible developments in future shipping technology, including submarine tankers, hydrofoils, ground-effect vehicles, offshore loading stations, and artificial islands

**Cybersecurity Issues in Emerging Technologies** Apr 06 2021 The threat landscape is evolving with tremendous speed. We are facing an extremely fast-growing attack surface with a diversity of attack vectors, a clear asymmetry between attackers and defenders, billions of connected IoT devices, mostly reactive detection and mitigation approaches, and finally big data challenges. The clear asymmetry of attacks and the enormous amount of data are additional arguments to make it necessary to rethink cybersecurity approaches in terms of reducing the attack surface, to make the attack surface dynamic, to automate the detection, risk assessment, and mitigation, and to investigate the prediction and prevention of attacks with the utilization of emerging technologies like blockchain, artificial intelligence and machine learning. This book contains eleven chapters dealing with different Cybersecurity Issues in Emerging

Technologies. The issues that are discussed and analyzed include smart connected cars, unmanned ships, 5G/6G connectivity, blockchain, agile incident response, hardware assisted security, ransomware attacks, hybrid threats and cyber skills gap. Both theoretical analysis and experimental evaluation of state-of-the-art techniques are presented and discussed. Prospective readers can be benefitted in understanding the future implications of novel technologies and proposed security solutions and techniques. Graduate and postgraduate students, research scholars, academics, cybersecurity professionals, and business leaders will find this book useful, which is planned to enlighten both beginners and experienced readers.

**The Space Economy at a Glance 2014** Nov 20 2019 Space Economy at a Glance provides a statistical overview of the global space sector and its contributions to economic activity. This new edition provides indicators and statistics based on both official and private data, in over forty countries, and identifies new dynamics in the space sector.

**Guidelines and Recommendations for River Information Services** Apr 18 2022

**The Art of Talk** Feb 04 2021 Intensely private radio personality Art Bell, who lives in the middle of the desert 65 miles west of Las Vegas--where he broadcasts his radio shows--finally comes forward with his fascinating autobiography.

**Wireless Network Security** Jun 27 2020 This book identifies vulnerabilities in the physical layer, the MAC layer, the IP layer, the transport layer, and the application layer, of wireless networks, and discusses ways to strengthen security mechanisms and services. Topics covered include intrusion detection, secure PHY/MAC/routing protocols, attacks and prevention, immunization, key management, secure group communications and multicast, secure location services, monitoring and surveillance, anonymity, privacy, trust establishment/management, redundancy and security, and dependable wireless networking.

**Maritime IT & Electronics** Nov 25 2022

**Jane's Navy International** Jun 20 2022

**Arctic Marine Sustainability** Dec 14 2021 This book presents the latest scientific views on resource use conflicts in the Arctic seas. The main areas of focus are the biological resources of Arctic seas vs. exploitation of oil and gas resources, and the conflicts in between. In addition, climate change is presented as a stressor, which both limits and facilitates the economic availability of resources in the Arctic. The book is divided into five parts. Part 1 examines Arctic ecosystems, resilience of the marine environment and possible conflicts between industrial sector and biological world. The focus of Part 2 is on transport infrastructure along the northern routes. Issues such as Arctic maritime operations, black carbon and unmanned aerial vehicles are considered. Part 3 focuses on resource use conflicts in Arctic seas and on the most recent threats in terms of Arctic oil and gas exploration, offshore logistics operations as well as transportation of oil and oil products. Discussions in Part 4 of the book are concentrated around social aspects and involvement of local communities. Tourism development, preservation of indigenous culture, engagement of communities on relevant Arctic issues, search and rescue in the cold marine environment are examples of questions raised. The book reviews Arctic-specific petroleum regulations, the state of preparedness to oil spill accidents in the region as well as the latest developments in oil spill response technologies and their limitations. Search and rescue operations are reviewed and how working in this harsh Arctic environment affects the ability of rescue technicians to perform the required technical skills. Part 5 considers the sustainability challenges arising from the marine resource exploitation. The focus is on the vulnerability of Arctic ecosystems to disturbance – both natural and anthropogenic.

**Seaforth World Naval Review 2015** Aug 22 2022 The “profusely illustrated” yearly military reference that features world fleet reviews, significant ship developments, and technological advancements (Ships Monthly). Now in its seventh year, this annual has established an international reputation as an authoritative but affordable summary of all that has happened in the naval world in the previous twelve months. It combines regional surveys with one-off major articles on noteworthy new ships and other important developments. Besides the latest warship projects, it also looks at wider issues of importance to navies, such as aviation and electronics, and calls on expertise from around the globe to give a balanced picture of what is going on and to interpret its significance. The 2015 edition looks in detail at the French Navy and the Bangladesh and Myanmar navies, while significant ships include the Montford Point class mobile landing platforms, the Samuel Beckett offshore patrol vessels, and the Skjold class fast attack craft. There are technological reviews dealing with naval aviation by David Hobbs, and current mine

warfare developments by Norman Friedman, while warship recycling is discussed by Ian Buxton. Intended to make interesting reading as well as providing authoritative reference, there is a strong visual emphasis, including specially commissioned drawings and the most up-to-date photographs and artists' impressions. For anyone with an interest in contemporary naval affairs, whether an enthusiast or a defense professional, this annual has become required reading.

**The Globalization of China's Health Industry** Aug 18 2019 This book explores the ongoing transition of China's economy by examining how its healthcare industry is growing and changing. The coronavirus pandemic has reinforced one of the authors' key points: in our complex, fragile, and interconnected societies, the production of health is a vital strategic 'industry'. The case of China is particularly salient, because of its economic and geopolitical significance, and the scale of the healthcare challenge it has faced. Adopting a multi-level perspective, the authors examine the entrepreneurial role of the Chinese government as it seeks to strengthen the competitiveness of domestic firms. They analyze the strategies employed to improve China's technology and capacity for innovation, and discuss China's strategies and policies to ensure knowledge acquisition and creation in the long-term, with particular reference to international scientific collaborations. This book is a must-read for students, researchers, and policymakers interested in the prospects and challenges posed by the growth of the Chinese healthcare industry and its global impact.

**The Space Economy at a Glance 2011** Oct 12 2021 This second edition of *The Space Economy at a Glance* paints an updated and richly detailed picture of the space industry, its downstream services activities, and its wider economic and social impacts.

*Marine Robotics and Applications* Sep 18 2019 This book reports on findings at the intersection between two related fields, namely coastal hydrography and marine robotics. On one side, it shows how the exploration of the ocean can be performed by autonomous underwater vehicles; on the other side, it shows how some methods from hydrography can be implemented in the localization and navigation of such vehicles, e.g. for target identification or path finding. Partially based on contributions presented at the conference *Quantitative Monitoring of Underwater Environment, MOQESM*, held on October 11-12, 2016, Brest, France, this book includes carefully revised and extended chapters presented at the conference, together with original papers not related to the event. All in all, it provides readers with a snapshot of current methods for sonar track registration, multi-vehicles control, collective exploration of underwater environments, optimization of propulsion systems, among others. More than that, the book is aimed as source of inspiration and tool to promote further discussions and collaboration between hydrographers, robotic specialists and other related communities.

**Pathways to Exploration** Jan 23 2020 The United States has publicly funded its human spaceflight program on a continuous basis for more than a half-century, through three wars and a half-dozen recessions, from the early Mercury and Gemini suborbital and Earth orbital missions, to the lunar landings, and thence to the first reusable winged crewed spaceplane that the United States operated for three decades. Today the United States is the major partner in a massive orbital facility - the International Space Station - that is becoming the focal point for the first tentative steps in commercial cargo and crewed orbital space flights. And yet, the long-term future of human spaceflight beyond this project is unclear. Pronouncements by multiple presidents of bold new ventures by Americans to the Moon, to Mars, and to an asteroid in its native orbit, have not been matched by the same commitment that accompanied President Kennedy's now fabled 1961 speech - namely, the substantial increase in NASA funding needed to make it happen. Are we still committed to advancing human spaceflight? What should a long-term goal be, and what does the United States need to do to achieve it? *Pathways to Exploration* explores the case for advancing this endeavor, drawing on the history of rationales for human spaceflight, examining the attitudes of stakeholders and the public, and carefully assessing the technical and fiscal realities. This report recommends maintaining the long-term focus on Mars as the horizon goal for human space exploration. With this goal in mind, the report considers funding levels necessary to maintain a robust tempo of execution, current research and exploration projects and the time/resources needed to continue them, and international cooperation that could contribute to the achievement of spaceflight to Mars. According to *Pathways to Exploration*, a successful U.S. program would require sustained national commitment and a budget that increases by more than the rate of inflation. In reviving a U.S. human

exploration program capable of answering the enduring questions about humanity's destiny beyond our tiny blue planet, the nation will need to grapple with the attitudinal and fiscal realities of the nation today while staying true to a small but crucial set of fundamental principles for the conduct of exploration of the endless frontier. The recommendations of Pathways to Exploration provide a clear map toward a human spaceflight program that inspires students and citizens by furthering human exploration and discovery, while taking into account the long-term commitment necessary to achieve this goal.

**Human Factors in the Maritime Domain** Oct 20 2019 The piecemeal fashion in which human factors research has been conducted in the maritime domain makes information retrieval available only by scanning through numerous research journals and conference papers. Bringing together human factors information from this and other domains, Human Factors in the Maritime Domain integrates a common body of knowledge into one single volume. The book provides the vital background information necessary to acquire a core knowledge base and a much-needed overview of human factors within the maritime domain. It starts by putting the topic into an historical and theoretical context, moves onto more specific and detailed topics and contemporary thinking in human factors, then reviews new maritime technology. The authors take a holistic approach based on a model of the socio-technical system of work in the maritime domain. They synthesize available knowledge and research, then present in an easily acceptable framework with example, illustrations, and case studies whenever possible, making the text rigorous, useful, and enjoyable. The three authors draw on a range of diverse backgrounds including working as a maritime surveyor, transport consultant, human factors lecturer, and mechanical engineer. They have undertaken maritime research in Denmark, Australia, Malta, and the UK. They have published several other human factor books on related topics. This combination of human factors knowledge, maritime wisdom, and substantial publication experience results in a book that is effective and practical.

**Robotics** May 19 2022 "The Three Laws of Robotics:1: A robot may not injure a human being or, through inaction, allow a human being to come to harm;2: A robot must obey the orders given it by human beings except where such orders would conflict with the First Law;3: A robot must protect its own existence as long as such protection does not conflict with the First or Second Law;The Zeroth Law: A robot may not harm humanity, or, by inaction, allow humanity to come to harm." -Isaac Asimov Although this famous quote derived from Isaac Asimov, professor of biochemistry at Boston University, seems plausible, it is highly improbable. The truth is, with the current status of robotic innovation, we are decades or even centuries before we must worry about the consequences that robotic innovation will have for humanity in the future. A robot is a simple enough idea. It is a machine that can do something by itself, in the simplest terms. You have almost certainly seen them in movies or read about them. Many people think of a metallic, human looking, machine when they think of a robot. The reality these days is a little less dramatic than that. In appearance, modern robots are often complex limbs or moving tools. They can complete tasks largely without the need for human assistance, but they are a long way from the types of robots people have been imagining for centuries; that's right, the idea of the 'robot' is very old indeed. The things that robots might be able to do are a key driving force beyond their development. These ideas drive related fields, and those in turn, drive people to come up with better ways to make and use robots. If you are interested in the future, history and present state of robotics, then this book is a must-have addition to your collection.

**The Convention on the International Regulations for Preventing Collisions at Sea, 1972** Apr 25 2020  
**Integrated Aircraft Navigation** Dec 22 2019 Integrated Aircraft Navigation discusses the fundamentals of navigation systems analysis. Modern aircraft navigation systems are characterized by a multifaceted, computer-oriented approach, covering various branches of theoretical dynamics, inertial measurements, radar, radio nav aids, celestial observations, and widely used statistical estimation techniques. Each pertinent field entails much technological development that is not essential for applied systems analysis. The book presents pertinent information extracted from a broad range of topics, expressed in terms of Newtonian physics and matrix-vector mathematics. The book begins by defining basic navigation quantities and functions, and introducing various subjects as an aid to subsequent developments. These include basic motion patterns, navigation coordinate frames, and navigation techniques and requirements. This is followed by separate chapters on coordinate transformations and kinematics; inertial navigation theory; the physics of inertial measurements; and navigation with multiple sensors. Subsequent chapters

deal with dynamic equations for all navigation modes considered; functional relationships and practical considerations for the various navigation aid sensors in common usage; and system applications. This book will be useful to the student or practicing engineer who wants a valid analytical characterization, using the simplest theoretical concepts permissible, while omitting specialized mechanization details.

**Major Companies of Europe 2000** Mar 17 2022 This established directory has been thoroughly revised, updated and expanded to provide current and comprehensive information on more than 24,000 of Europe's largest companies. Four volumes are filled with facts and contacts for major public and private companies in all 20 countries of Western Europe.

**Global Mobile Satellite Communications** Feb 22 2020 Global mobile satellite communications (GMSC) are specific satellite communication systems for maritime, land and aeronautical applications. It enables connections between moving objects such as ships, vehicles and aircrafts, and telecommunications subscribers through the medium of communications satellites, ground earth stations, PTT or other landline telecommunications providers. Mobile satellite communications and technology have been in use for over two decades. Its initial application is aimed at the maritime market for commercial and distress applications. In recent years, new developments and initiatives have resulted in land and aeronautical applications and the introduction of new satellite constellations in non-geostationary orbits such as Little and Big LEO configurations and hybrid satellite constellations as Ellipso Borealis and Concordia system. This book is important for modern shipping, truck, train and aeronautical societies because GMSC in the present millennium provides more effective business and trade, with emphasis on safety and commercial communications. Global Mobile Satellite Communications is written to make bridges between potential readers and current GMSC trends, mobile system concepts and network architecture using a simple mode of style with understandable technical information, characteristics, graphics, illustrations and mathematics equations. Global Mobile Satellite Communications represents telecommunications technique and technology, which can be useful for all technical staff on vessels at sea and rivers, on all types of land vehicles, on planes, on off shore constructions and for everyone possessing satellite communications handset phones.

**The New Pirates** Jul 09 2021 Piracy is a significant global threat to international sea-borne trade - the lifeblood of modern industrial economies and vital for world economic survival. The pirates of today are constantly in the world's news media, preying on private and merchant shipping from small, high-speed vessels. Andrew Palmer here provides the historical background to the new piracy, its impact on the shipping and insurance industries and also considers the role of international bodies like the UN and the International Maritime Bureau, international law and the development of advanced naval and military measures. He shows how this 'new' piracy is rooted in the geopolitics and socio-economic conditions of the late-20th century where populations live on the margins and where weak or 'failed states' can encourage criminal activity and even international terrorism. Somalia is considered to be the nest of piracy, but hotspots include not only the Red Sea region, but also the whole Indian Ocean, West Africa, Latin America, Southeast Asia and the South China Seas.

**POLAR NIGHT Marine Ecology** May 27 2020 Until recently, the prevailing view of marine life at high latitudes has been that organisms enter a general resting state during the dark Polar Night and that the system only awakens with the return of the sun. Recent research, however, with coordinated, multidisciplinary field campaigns based on the high Arctic Archipelago of Svalbard, have provided a radical new perspective. Instead of a system in dormancy, a new perspective of a system in full operation and with high levels of activity across all major phyla is emerging. Examples of such activities and processes include: Active marine organisms at sea surface, water column and the sea-floor. At surface we find active foraging in seabirds and fish, in the water column we find a high biodiversity and activity of zooplankton and larvae such as active light induced synchronized diurnal vertical migration, and at seafloor there is a high biodiversity in benthic animals and macroalgae. The Polar Night is a period for reproduction in many benthic and pelagic taxa, mass occurrence of ghost shrimps (Caprellides), high abundance of Ctenophores, physiological evidence of micro- and macroalgal cells that are ready to utilize the first rays of light when they appear, deep water fishes found at water surface in the Polar night, and continuous growth of bivalves throughout the winter. These findings not only begin to shape a new paradigm for marine winter ecology in the high Arctic, but also provide conclusive evidence for a top-

down controlled system in which primary production levels are close to zero. In an era of environmental change that is accelerated at high latitudes, we believe that this new insight is likely to strongly impact how the scientific community views the high latitude marine ecosystem. Despite the overwhelming darkness, the main environmental variable affecting marine organisms in the Polar Night is in fact light. The light regime during the Polar Night is unique with respect to light intensity, spectral composition of light and photoperiod.

*Fairplay* Oct 24 2022

**Basic Research** Jul 29 2020

**Implementing e-Navigation** Jan 03 2021 This one-of-a-kind new resource, written by an expert in the field, provides a comprehensive introduction to global e-navigation. This book presents the vision, development, and objectives of this strategy to increase awareness, safety, and security in the navigation of commercial shipping. Current equipment and practices of maritime navigation are discussed including ship reporting, shore based services, communications, and challenges in vessel travel services (VTS) and port areas. This book identifies performance gaps and demonstrates how to identify user needs as well as solutions through gap analysis. E-navigation architectures, solutions, and standards are explored. Readers find useful insight into how new concepts of e-navigation are being adapted internationally and some of the difficulties that will need to be overcome. This resource focuses on the use of e-navigation in security, cyber security, environmental protection, communications, and global and technical standardization. Navigation equipment, systems, displays, bridge systems, and other current equipment and practices are explored in this book. Readers get a look into the future of e-navigation, including the impact that digital globalization, unmanned ships, and big data will have on this strategy.

**Ocean Industry** Mar 05 2021

**Strapdown Inertial Navigation Technology** Nov 01 2020 Inertial navigation is widely used for the guidance of aircraft, missiles ships and land vehicles, as well as in a number of novel applications such as surveying underground pipelines in drilling operations. This book discusses the physical principles of inertial navigation, the associated growth of errors and their compensation. It draws current technological developments, provides an indication of potential future trends and covers a broad range of applications. New chapters on MEMS (microelectromechanical systems) technology and inertial system applications are included.

**Training Course for Instructors** May 07 2021 This model course aims to assist instructors in the design and delivery of Port Facility Security officer (PFSO) training courses by: Linking the knowledge required to competently perform the duties and responsibilities of a PFSO, as identified in MSC.1/Circ.1188, Guidelines on Training and Certification for Port Facility Security Officers (22 May 2006), to the relevant guidance material contained in the Guide to Maritime Security and the ISPS Code, 2012 Edition; and identifying opportunities to increase the level of knowledge in certain key areas of responsibility

*GMDSS Manual* Jan 15 2022

**Snake Robots** Aug 30 2020 Snake Robots is a novel treatment of theoretical and practical topics related to snake robots: robotic mechanisms designed to move like biological snakes and able to operate in challenging environments in which human presence is either undesirable or impossible. Future applications of such robots include search and rescue, inspection and maintenance, and subsea operations. Locomotion in unstructured environments is a focus for this book. The text targets the disparate muddle of approaches to modelling, development and control of snake robots in current literature, giving a unified presentation of recent research results on snake robot locomotion to increase the reader's basic understanding of these mechanisms and their motion dynamics and clarify the state of the art in the field. The book is a complete treatment of snake robotics, with topics ranging from mathematical modelling techniques, through mechatronic design and implementation, to control design strategies. The development of two snake robots is described and both are used to provide experimental validation of many of the theoretical results. Snake Robots is written in a clear and easily understandable manner which makes the material accessible by specialists in the field and non-experts alike. Numerous illustrative figures and images help readers to visualize the material. The book is particularly useful to new researchers taking on a topic related to snake robots because it provides an extensive overview of the snake robot literature and also represents a suitable starting point for research in this area.

**Sensing and Control for Autonomous Vehicles** Feb 16 2022 This edited volume includes thoroughly collected on sensing and control for autonomous vehicles. Guidance, navigation and motion control systems for autonomous vehicles are increasingly important in land-based, marine and aerial operations. Autonomous underwater vehicles may be used for pipeline inspection, light intervention work, underwater survey and collection of oceanographic/biological data. Autonomous unmanned aerial systems can be used in a large number of applications such as inspection, monitoring, data collection, surveillance, etc. At present, vehicles operate with limited autonomy and a minimum of intelligence. There is a growing interest for cooperative and coordinated multi-vehicle systems, real-time re-planning, robust autonomous navigation systems and robust autonomous control of vehicles. Unmanned vehicles with high levels of autonomy may be used for safe and efficient collection of environmental data, for assimilation of climate and environmental models and to complement global satellite systems. The target audience primarily comprises research experts in the field of control theory, but the book may also be beneficial for graduate students.

**Lloyd's Ship Manager** Sep 23 2022

*Mood Mapping* Sep 11 2021 Mood mapping simply involves plotting how you feel against your energy levels, to determine your current mood. Dr Liz Miller then gives you the tools you need to lift your low mood, so improving your mental health and wellbeing. Dr Miller developed this technique as a result of her own diagnosis of bipolar disorder (manic depression), and of overcoming it, leading her to seek ways to improve the mental health of others. This innovative book illustrates: \* The Five Keys to Moods: learn to identify the physical or emotional factors that affect your moods \* The Miller Mood Map: learn to visually map your mood to increase self-awareness \* Practical ways to implement change to alleviate low mood Mood mapping is an essential life skill; by giving an innovative perspective to your life, it enables you to be happier, calmer and to bring positivity to your own life and to those around you. 'A gloriously accessible read from a truly unique voice' Mary O'Hara, Guardian 'It's great to have such accessible and positive advice about our moods, which, after all, govern everything we do. I love the idea of MoodMapping' Dr Phil Hammond 'Can help you find calm and take the edge off your anxieties' Evening Standard 'MoodMapping is a fantastic tool for managing your mental health and taking control of your life' Jonathan Naess, Founder of Stand to Reason

**Shipping World & Shipbuilder** Dec 26 2022

*Mobility Analytics for Spatio-Temporal and Social Data* Mar 25 2020 This book constitutes the refereed post-conference proceedings of the First International Workshop on Mobility Analytics for Spatio-Temporal and Social Data, MATES 2017, held in Munich, Germany, in September 2017. The 6 revised full papers and 2 short papers included in this volume were carefully reviewed and selected from 13 submissions. Also included are two keynote speeches. The papers intend to raise awareness of real-world problems in critical domains which require novel data management solutions. They are organized in two thematic sections: social network analytics and applications, and spatio-temporal mobility analytics.

**Shipping and the Environment** Aug 10 2021 This book focuses on the interaction between shipping and the natural environment 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, 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 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 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 activities as well as policy makers and interested public. It is also intended as a textbook in higher education academic programmes.

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