

Publications and Services 2020

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Tools to build best practice

Bridget Hogan, Director, Publishing and Membership

As an independent professional membership organisation, we promote safer and more effective shipping practises worldwide. We achieve this through a range of products and services developed for our members and the wider industry.

Our publications outline best practice and are recognised as industry and navy standards. Our members, our committees and peer review processes contribute to ensuring that our publications are current. They reflect The Nautical Institute's aims and areas of work – as driven by our Strategic Plan. You can be sure that you are getting the best quality help from us to advance your professional and career development.

All of The Nautical Institute's projects are devoted to improving industry wide standards, promoting safety and professional development. Our free resources are a good example of this. They are there for everyone to use and pass on, so that best practice can be spread as widely as possible.

Support for you:

- Have you ever experienced an accident or near-miss? Tell us in confidence and contribute to our Mariners' Alerting and Reporting Scheme (MARS, page 15)
- *The Navigator*, our free magazine, champions the role of today's professional marine navigators. Find out how to get a copy for your ship or training institute on page
- Join us and upgrade your future. See all membership benefits on page 16
- Thanks to our Nautical Affiliates who sponsor MARS and keep it free for all in the industry to benefit from. For details on how you can help with this vital resource <https://www.nautinst.org/en/membership/for-organisations/index.cfm>

- Members are entitled to a 30% discount on all NI books, so have your login details to hand.
- Bulk or fleet orders, booksellers and training institutions are also eligible for discounts.
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- Green Award and IMEC members all get a 10% discount on all Nautical Institute publications.



order online: www.nautinst.org/shop

NAVIGATION



The Use of Visual Aids to Navigation

Second edition

Commodore David Squire CBE FNI FCMI

The advance of technology has changed the development of, and reliance on, visual aids to navigation but they continue to be vital tools for mariners to assess and verify their position. They provide situational awareness and orientation, indicate current flow and afford redundancy for electronic systems. They also highlight individual dangers such as wrecks, rocks and shoals. The book updates an original report issued in 2003 and includes evidence compiled during the original consultation and as part of the updating.

Published: **2013** Price: **£35** Member's price: **£24.50**
ISBN: **978 1 906915 29 2** Ref: **0334**



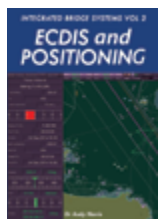
Integrated Bridge Systems Vol 1

Radar and AIS

Dr A Norris FNI

From 2008 all new radars were required to display AIS information, and this book looks at the implications of integrating these functions. It explains how radar and AIS systems can be better integrated with overlay and underlay displays, to assist with decision-making on board. The author draws on experience as a leading designer and industry chairman in the international arena.

Published: **2008** Price: **£60** Member's price: **£42**
ISBN: **978 1 870077 95 8** Ref: **0307**



Integrated Bridge Systems Vol 2

ECDIS and Positioning

Dr A Norris FNI

If you have little or no knowledge of electronic charts, this is a must-read. If you have some knowledge, this book will improve your understanding and approach to the use of electronic charts. If you have a good knowledge, the book's approach will make you think a little harder as to how ECDIS can improve standards of navigation. Written especially for mariners, this is guidance on how to develop the new mindset needed to use ECDIS safely and effectively. Over 100 full colour illustrations.

Published: **2010** Price: **£60** Member's price: **£42**
ISBN: **978 1 906915 11 7** Ref: **0321**

Buy the two together for just £100

ISBN: **978 1 906915 12 4** Ref: **0322**

The Admiralty Manual of Navigation Vol 1: The Principles of Navigation

Eleventh edition

Alastair Harris MScBA (Hons)

This comprehensive reference lays the foundation for safe and effective navigation at sea, including ocean and coastal passages, pilotage and anchoring. The fundamental principles of navigation developed over centuries of experience in the Royal Navy have been applied to the ECDIS era so that this new edition is 'digital by default'. The manual also contains essential guidance on techniques for navigating with traditional paper charts and for the operation of ships when GPS is not available.

Published: **2019** Price: **£150** Member's price: **£105**
ISBN: **978 1 906915 64 3** Ref: **0382**

The Admiralty Manual of Navigation Vol 2: Astro Navigation

Eleventh edition

Alastair Harris MScBA (Hons)

Satellite technology enables almost every mariner to use electronic nav aids to fix their position on the oceans. However, electronic systems can be disrupted by errors in a satellite or its ground control systems, defects in shipboard equipment or interference with satellite signals. The celestial chart therefore remains the most reliable tool for mariners navigating out of sight of land.

This new edition of the classic guide to celestial navigation has been redesigned for clarity and contains guidance on using UKHO/ Nautical Almanac Office's NavPac v4 software for astro navigation, including full-colour screenshots. With NavPac, a modicum of skill with a sextant and the appropriate chapter from the book, anyone can do astro.

Published: **2018** Price: **£150** Member's price: **£105**
ISBN: **978 1 906915 58 2** Ref: **0377**

Buy both together for just £275

ISBN: **978 1 906915 65 0** Ref: **0383**



BRIDGE MANAGEMENT



Bridge Team Management Second edition

Captain A J Swift FNI and T J Bailey FNI

This industry standard for passage planning reinforces the message that effective planning, good leadership, teamwork and sound navigational practice will ensure a safe and timely arrival in port.

The book offers solid practical guidance on navigating in coastal and estuarial waters. Proper emphasis is placed on the importance of clear communication and on creating a supportive professional relationship between the bridge team and the pilot.

Published: **2004** Price: **£70** Member's price: **£49**
ISBN: **978 1 870077 66 8** Ref: **0091**



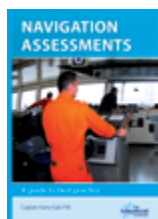
Bridge Watchkeeping Second edition

Various authors

A practical self-study guide used by various companies throughout the industry for training bridge watchkeepers and enhancing understanding of the reasons for checking,

monitoring, recording and controlling. This book examines preparing for sea, watchkeeping in pilotage waters, watchkeeping in coastal waters, making a landfall, anchoring and anchor watches, watchkeeping in reduced visibility, taking over the watch, calling the Master and responding to emergencies.

Published: **2003** Price: **£70** Member's price: **£49**
ISBN: **978 1 870077 17 0** Ref: **0100**



Navigation Assessments A guide to best practice

Captain Harry Gale FNI

Many maritime incidents could have been prevented by the use of a navigation assessment, which, through careful observation, evaluates how the navigation of a ship is being conducted. An effective assessment should take place over several days and provide practical feedback to the bridge team as well as guidance to shore-based management.

This handbook provides a step-by-step guide that will enable the assessor to carry out a fair, objective and positive assessment that properly takes into account human element issues. Case studies of maritime accidents and incidents provide valuable learning points.

The book is also intended to help mariners understand the assessment process. If it is properly conducted, an assessment will provide insights that contribute to navigators' continuing professional development.

Published: **2016** Price: **£55** Member's price: **£38.50**
ISBN: **978 1 906915 51 3** Ref: **0366**



Shiphandling Logbook

This logbook allows mariners to record and reflect on the shiphandling manoeuvres they carry out, either on board ship or on simulators. For each activity, the mariner risk-assesses and describes the manoeuvre, noting details such as wind and current, pivot point, propulsion and rudder. These details build over time into a comprehensive

resource that highlights progress, learning points and gaps in experience that need to be filled. For the aspiring mariner, it also acts as valuable proof of professional development to senior officers, company, flag state and insurers. The logbook can be used by mariners at all levels working aboard ships in any trade.

Published: **2018** Price: **£40** Member's price: **£28**
ISBN: **978 1 906915 63 6** Ref: **0381**

THE HUMAN ELEMENT



Mentoring at Sea

The 10 minute challenge

Captain André L Le Goubin MA FNI

Anyone can be a mentor at sea and anyone can benefit from mentoring – and it only takes 10 minutes to get started. This book explains how knowledge gained through experience, and then

reflected upon, can be passed on in an informal but purposeful way. Every suggestion will take no more than 10 minutes to carry out but incorporating opportunities for mentoring into the daily onboard routine will widen and consolidate the on-the-job experience of those progressing through the ranks. It will also improve communications and enhance team-building, which should lead to a reduction in accidents and incidents. This practical guide sets the 10 minute challenge for potential mentors and candidates to identify concerns and practical solutions.

Published: **2012** Price: **£60** Member's price: **£42**
ISBN: **978 1 906915 48 3** Ref: **0346**



Human Performance and Limitation for Mariners

Various authors

A system of examinations for aviation pilots in human performance and limitation has produced great advances in safety for that sector. This book introduces the concept to seafarers so that

they can understand their own limitations and make the best use of their physical and mental abilities in the challenging shipboard environment. This book looks at the realities of living and working on board and explains how recognising human limitations can improve performance, safety and job satisfaction.

Published: **2015** Price: **£60** Member's price: **£42**
ISBN: **978 1 906915 34 6** Ref: **0362**

10% discount for IMarEST members

10% discount for IMarEST members



Leadership Throughout

R Jeffery MNI

This practical guide looks at leadership in modern multicultural organisations with direct relevance to seafaring. Leadership is examined through five incremental steps: encourage awareness, provide direction, share information, create a positive atmosphere and coordinate action. This approach can successfully enhance the leadership skills of individuals, promote enterprise in small organisations, improve operational performance on board and considerably motivate those in large corporations.

Published: **2007** Price: **£45** Member's price: **£31.50**
ISBN: **978 1 870077 85 9** Ref: **0300**



Managing Traumatic Stress Guidance for Maritime Organisations

Professor Neil Greenberg

Produced in partnership with Human Rights at Sea and psychological health consultancy March on Stress, this booklet provides top-level guidance for senior management to help improve the mental health of seafarers. It will be of particular value to ship managers/operators, HR departments and all involved with seafarers' welfare around the world.

Untreated post-traumatic stress disorder can lead to poor decision-making and may have legal and financial consequences for a maritime organisation. This concise guidance, which stresses the importance of early detection and prevention of mental health issues at sea, is essential reading for all responsible maritime organisations in supporting their most important asset – their people.

Published: **2016** Download for **FREE** from The Nautical Institute's website ISBN: **978 1 906915 36 0** Ref: **0365**



Alert!

D Squire CBE FNI FIMgt (ed)

The Nautical Institute's *Alert!* project, supported by the Lloyd's Register Foundation, aims to improve awareness of the human element in the maritime industry. Forty issues of the quarterly *Alert!* maritime human element bulletin were produced, winning numerous industry plaudits.

All 350 articles published in the bulletin are brought together in the *Alert! Compendium*, along with 40 centre-spread graphics and the Human Element Competencies Framework approved by IMO in 2017.

The hardback book is a valuable resource for naval architects, mariners, engineers, port operators, regulators and insurers. All will benefit from exploring this unrivalled body of knowledge, which underscores the importance of human element principles in ship design and operation. Two softback collections of the earlier bulletins are also available.

Alert! Bulletins 1-12
Published: **2007** Price: **£40** Member's price: **£28**
Ref: **0295** ISBN: **978 1 870077 77 4**

Alert! Bulletins 13-21
Published: **2009** Price: **£40** Member's price: **£28**
Ref: **0319** ISBN: **978 1 906915 09 4**

Alert! Compendium Bulletins 1-40
Published: **2017** Price: **£140** Member's price: **£98**
Ref: **0368** ISBN: **978 1 906915 53 7**

CASUALTY



Casualty Management Guidelines

The Nautical Institute in association with the International Salvage Union

Casualties are not straightforward and mariners who find themselves involved in them rarely have previous experience. These comprehensive practical guidelines will help seafarers during a casualty when demands can be confusing, contradictory, unclear or a combination of all three. Masters and crew members are told what to expect from people or organisations that might be involved as the casualty unfolds. Chapters are set out in broadly chronological order of how Masters should expect to deal with different people, from owners to government officials, insurance representatives and salvage experts. It gives all involved an idea of the job each may be undertaking, together with their priorities and responsibilities.

Published: **2012** Price: **£55** Member's price: **£38.50**
ISBN: **978 1 906915 39 1** Ref: **0336**



Navigation Accidents and their Causes

Various authors

Navigation Accidents and their Causes looks at major casualties to illustrate the lessons that can be learned from them and sets out practical ways for those on the bridge to consider risks, plan for them and then take action to avoid them.

The authors, drawn from accident investigators, Masters, navigation specialists, pilots and university lecturers from all over the world, detail the need for risk assessment in advance of a voyage, including bridge resource management and passage planning. Situational awareness is highlighted throughout.

Each chapter can be read individually, forming a valuable onboard resource. The overall message is that everyone can learn from the mistakes of others and everyone has a part to play in ensuring that training and experience are used effectively to keep vessels safe.

IMO Secretary-General Mr Koji Sekimizu said: "This timely publication from The Nautical Institute should provide a crucial guide for every mariner serving at sea and serve to assist in reducing collisions and groundings."

Published: **2015** Price: **£65** Member's price: **£45.50**
ISBN: **978 1 906915 32 2** Ref: **0361**

Buy the two together for just £105

ISBN: **978 1 906915 50 6** Ref: **0363**

Guidelines for Collecting Maritime Evidence volume 1 Fourth edition

Various authors

Guidelines for Collecting Maritime Evidence aims to provide broad answers to two questions. First, how should a Master react after an incident when several investigating bodies are knocking on the door, all with differing requirements and priorities. Second, how can the Master, crew and management ashore be ready to produce the evidence required, much of which demonstrates day-to-day operations and compliance with the ISM Code and applicable statutes.

This book provides practical guidance on the range of individuals and organisations looking for evidence, what they need and how it will be used. A state safety investigator, Master, insurers, surveyor, lawyer and arbitrator each describe evidence collection from their own point of view.

The benefits and challenges of electronically obtained evidence are discussed, as is the need to protect evidence from disclosure in case of future dispute or litigation.

Book published: **2017** Price: **£55** Member's price: **£38.50**
ISBN : **978 1 906915 54 4** Product Code : **0390**

Guidelines for Collecting Maritime Evidence volume 2

Various authors

This second volume in the Collecting Maritime Evidence series focuses on electronic evidence – what it is, how to preserve and collect it, and how it can be used to understand the circumstances that led to a maritime incident.

While not completely replacing traditional records, data from ECDIS, VDR and AIS are vital resources for the investigator. Admiralty Judge Mr Justice Teare points out that the great benefit of such evidence is that “electronic or digital records cannot lie or have a faulty or imperfect recollection. They will be the best evidence of what happened.”

The book's contributors are drawn from a wide range of disciplines. Here they also discuss the roles of the average adjuster and the mariner lawyer, cover evidence collection from the P&I perspective and that of the naval architect, and consider subjects as diverse as fire, deterioration of agricultural cargoes, machinery failure and surveying.

Book published: **2019** Price: **£55** Member's price: **£38.50**
ISBN : **978 1 906915 70 4** Product Code : **0388**



Buy both together for just £100

Price: **£100** Member's price: **£70**
Product Code : **0389** ISBN : **978 1 906915 73 5**



The Nautical Institute on Command Third edition

Various authors

The Nautical Institute on Command is the Institute's flagship publication and distils the best advice available for aspiring officers, new Masters and experienced Masters.

It aims to promote reflection on aspects of the job that they may not have yet experienced. Commanding a ship requires all the skills and knowledge, professional and technical, gained up to the point of taking up command, plus soft skills.

The book's expert authors cover these in short practical articles that will guide the transition from chief officer to Master and also serve as reference for years to come. The book leads readers through the basics of command, looking at legislation and how it affects the day job and relationships with the various stakeholders. The focus on day-to-day management includes operations and personnel management.

Published: **2015** Price: **£65** Member's price: **£45**
ISBN: **978 1 906915 21 6** Ref: **0357**

SECURITY

Maritime Security: A practical guide Second edition

Steven Jones MA MSc BSc (Hons) MNI FRSA

Masters, company and ship security officers have a pivotal role in making vessels secure. This book is aimed at those responsible for vessel crews, cargoes and the ships themselves. It will help in the development of the ship security plan and explain how to make a vessel truly secure. The principles underpinning maritime security are explained and guidance given on putting them into practice, to ensure compliance with legislation.

Published: **2012** Price: **£65** Member's price: **£45.50**
ISBN: **978 1 906915 45 2** Ref: **0341**

Maritime Security handbook: Coping with Piracy

Steven Jones MA MSc BSc (Hons) MNI FRSA

The first handbook in The Nautical Institute's maritime security suite complements the author's 2012 book *Maritime Security: a practical guide*. It takes the same practical approach to preparation and training before entering a high risk area, self-protection measures while within it and survival strategies if taken hostage. The book includes guidance on the effective implementation of the industry's Best Management Practices, the onboard implications of taking on armed guards, building a disciplined and supportive onboard team and ensuring immediate action ashore should the worst happen.

Published: **2013** Price: **£45** Member's price: **£31.50**
ISBN: **978 1 906915 46 9** Ref: **0342**

Buy with Maritime Security for just £95

ISBN: **978 1 906915 41 4** Ref: **0349**

Maritime Security handbook: Stowaways by Sea and Rescue of Migrants Second edition

Steven Jones MA MSc BSc (Hons) MNI FRSA

Stowaways are an age-old problem for shipping, but the threats they pose and the potential costs and other consequences have increased significantly in recent years.

This practical guide in The Nautical Institute's Maritime Security Suite covers the security basics of preventing illegal boarding, along with safe ways of apprehending, searching, recording, reporting and accommodating stowaways found on board. Case studies explain migrant smugglers' tactics and highlight lessons to be learned from recent stowaway incidents.

Rescue of migrants has developed into a major challenge for shipping, especially in the Mediterranean, so this section has been enlarged and updated for this second edition.

Published: **2020** Price: **£45** Member's price: **£31.50**
ISBN: **978 1 906915 69 8** Ref: **0393**

Buy with Maritime Security for just £95

ISBN: **978 1 906915 81 0** Ref: **0394**



Buy these three books together for just £130

ISBN: **978 1 906915 80 3** Ref: **0395**

BUSINESS



The Shipmaster's Business Self-Examiner

Tenth edition

Malcolm MacLachlan FNI

Designed primarily as a study aid for Master's Orals, the book is also used by OOW and Chief Mate students and has drawn the praises of many successful Orals candidates in the UK and overseas. It is also a handy reference for serving Shipmasters, shore superintendents, ship operators and all who need to keep up to date with the frequent changes in merchant ship regulation and commercial practice. More than 4,200 questions and answers are set out in nine logically arranged sections.

Published: **2016** Price: **£80** Member's price: **£56**
ISBN: **978 1 906915 35 3** Ref: **0364**

PORT OPERATIONS



Mooring and Anchoring Ships Vol 1 Principles and Practice

I C Clark MSc FNI

This well-researched book sets out to explain the principles involved when ships use lines and anchors to hold them in place. The particular value of this book lies in the illustrations and the seamanlike text, which is based on theoretical principles but explained in a practical way. The foreword is written by the former Secretary General of the IMO, Efthimios Mitropoulos, and the book is supported by the major international associations concerned with ship operations.

Published: **2009** Price: **£120** Member's price: **£84**
ISBN: **978 1 870077 93 4** Ref: **0305**



Mooring and Anchoring Ships Vol 2 Inspection and Maintenance

W Vervloesem FNI

This is the most comprehensive survey into mooring equipment yet undertaken and the results are essential information for surveyors, inspectors and ship operators concerned with proper use and maintenance. The book demonstrates, with the use of photographs, appropriate and inappropriate use of mooring equipment. The author draws on his picture library from over 1,000 ship visits to show how lack of awareness and knowledge can lead to unsafe practices. Different components of mooring systems are described and the consequences of correct and incorrect use shown.

Published: **2009** Price: **£120** Member's price: **£84**
ISBN: **978 1 870077 94 1** Ref: **0306**

The two volumes complete a major study into the subject of mooring and anchoring which has been supported by the International Chamber of Shipping.

Buy the two together for just £205

ISBN: **978 1 906915 03 2** Ref: **0317**



Tug Use Offshore, in Bays and Rivers

Captain George H Livingstone FNI and Captain Grant H Livingstone MNI

This book sets out the practices which are used to handle tug barge systems in port and at sea. The main focus concerns operations on the west coast of the USA and Canada. However, the hard lessons learnt there will transfer into other areas around the world, making this book a valuable source of reference for tug operators generally. It is used as a text book for US Coast Guard qualifications.

Published: **2006** Price: **£80** Member's price: **£56**
ISBN: **978 1 870077 74 3** Ref: **0290**



The Work of the Harbour Master

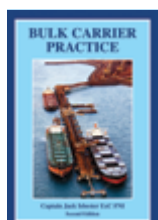
Third edition

The Nautical Institute in co-operation with the International Harbour Masters' Association

The book is linked to the Institute's self-study scheme leading to a Harbour Master's

Certificate. It explains how responsibilities vary between ports and, based on the experience of Harbour Masters from different types of ports all over the world, gives examples of what new entrants to the industry may encounter. Different aspects of the role are examined, largely following the course of a vessel as it approaches port until it berths, including the commercial pressures that may be brought to bear. It is an ideal bridging course for those thinking of a career move ashore.

Published: **2012** Price: **£60** Member's price: **£42**
ISBN: **978 1 906915 02 5** Ref: **0332**



Bulk Carrier Practice

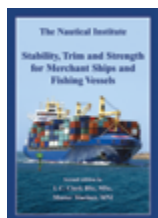
Second edition

Captain Jack Isbester ExC FNI MCMS

This fully updated second edition is aimed at enhancing the safety and efficiency of bulk carriers and their crews. Robert Lorenz-Meyer, President and Chairman BIMCO, said in the foreword:

"Anyone in the bulk carrier industry will benefit from reading *Bulk Carrier Practice*. It deserves to be on the bookshelf on the bridge of all bulk carriers, and in the offices of all bulk carrier operators."

Published: **2010** Price: **£180** Member's price: **£126**
ISBN: **978 1 906915 10 0** Ref: **0320**



Stability, Trim and Strength for Merchant Ships and Fishing Vessels

Second edition

I C Clark MSc FNI Master Mariner

This book is a major reference work for the international shipping industry. It is a useful source

of reference for sea staff and fleet managers who need a deeper understanding of stability and strength to meet operational and survey requirements than is taught for certificates of competency. Its interdisciplinary character makes it a standard for student naval architects and ship design engineers.

Published: **2008** Price: **£110** Member's price: **£77**
ISBN: **978 1 870077 87 3** Ref: **0267**



The Admiralty Manual of Seamanship

Twelfth edition

Vic Vance

Of great importance to the maritime community, this collaboration between the Royal Navy and The Nautical Institute contains a wealth of experience. The fundamental principles of good

seamanship are unchanging, whatever technology is introduced. The book is relevant to merchant and naval training schools and those in pursuit of STCW qualifications. It is closely aligned with the UK's Maritime and Coastguard Agency (MCA) examination syllabuses and is used by the MCA as a standard reference.

Published: **2015** Price: **£150** Member's price: **£105**
ISBN: **978 1 906915 49 0** Ref: **0356**

Launch and Recovery of Boats from Ships

Dag Pike FRIN FIMarEST AFNI FRMetS

Launching, operating and recovering small boats are activities outside the expertise of most crew and can require considerable skill and seamanship. For safety reasons, a practice drill is unlikely to provide a realistic simulation of an emergency situation.

This book demonstrates good practice when carrying out these operations and explains the techniques and systems that can improve manoeuvres. It reviews the equipment available and assesses both its benefits and its potential drawbacks.

Published: **2018** Price: **£35** Member's price: **£24.50**
ISBN **978 1 906915 22 3** Ref: **0376**

Driving Lifeboats and Rescue Boats

Dag Pike FRIN FIMarEST AFNI FRMetS

Taking to the boats, getting away from a stricken vessel and safely negotiating the open sea until rescued is one of the most demanding tasks a seafarer may have to face. This book provides potentially lifesaving insights into the realities of handling a lifeboat, MOB boat or fast rescue boat in all conditions, from boarding and leaving the ship's side to driving small craft in following seas, beam seas, head seas, fog, ice and at night.

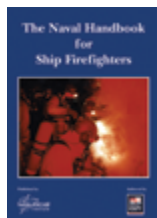
Published: **2019** Price: **£35** Member's price: **£24.50**
ISBN: **978 1 906915 66 7** Ref: **0384**



Buy the two together for just £60

ISBN: **978 1 906915 72 8** Ref: **0387**

NAVAL HANDBOOKS



The Naval Handbook for Ship Firefighters

Eighth edition

Fire at sea is one of the most dangerous hazards. This handbook complements training given to naval firefighters, covering safety, correct principles and use of equipment, types of fire and emergency response. The last chapter, contributed by The Nautical Institute and written by F G M Evans FNI GFire E, examines the hazards on commercial vessels, particularly cargo fires. The handbook provides a refresher for drills and exercises and is a valuable guide for training.

Published: **2006** Price: **£40** Member's price: **£28**
ISBN: **978 1 870077 72 9** Ref: **0293**

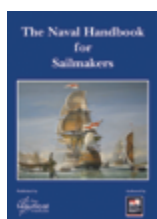


The Naval Handbook for Survivors

Third edition

Abandoning ship is a team effort and this classic handbook is designed to complement the training given to naval personnel for the 25-person liferaft. It covers evacuation, inflation, equipment, communications, search and rescue, survival techniques, what to do when landing in remote areas, how to collect water and avoid heat stroke or hypothermia. This book is issued to all Royal Navy seagoing personnel and has been made available to The Nautical Institute so that all can benefit from the naval experience.

Published: **2007** Price: **£40** Member's price: **£28**
ISBN: **978 1 870077 79 8** Ref: **0296**



The Naval Handbook for Sailmakers

Third edition

Traditional maritime skills like sailmaking and canvas work have been handed down for generations but seldom recorded. There are few authoritative sources of information on this subject but the Royal Navy has maintained this knowledge in this classic handbook. The diagrams and illustrations are particularly fine while the text is the distilled expertise of countless sailmakers. This book will interest naval historians and anybody who wishes to practise the skill of sewing and canvas work.

Published: **2008** Price: **£40** Member's price: **£28**
ISBN: **978 1 870077 89 7** Ref: **0303**

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ISBN: **978 1 906915 37 7** Ref: **0337**

SPECIALISMS



Improving Ship Operational Design

Second edition

Various authors

Bad ship design can kill people. It can also make working on board difficult and resting on board impossible. Good design can make maritime operations safer and more effective. This book aims to give naval architects and ship designers, both new and experienced, an insight into how seafarers work and live on the ships they design and how their daily lives could be improved by focusing on human-centred design. Practical articles on ship types and the operational requirements of personnel, illustrated by case studies, form the core of the book. References are given along with suggestions for further reading, all of which corresponds to the work carried out by the CyClaDes project.

Published: **2015** Price: **£65** Member's price: **£45.50**
ISBN: **978 1 906915 28 5** Ref: **0360**



The Shipping Industry and Marine Spatial Planning: a professional approach

This guide to help maritime professionals participate in marine spatial planning (MSP) was co-written with the World Ocean Council. It explores MSP to help those involved understand the issues in order to make informed and co-ordinated decisions that will reduce conflict between users.

Published: **2013** Price: **£7 (print copy)** Member's price: **£4.90**
download free at www.nautinst.org/MSP



Numerical Weather Prediction

A practical guide for mariners

Huw Davies MSc MA MBA FInstLM

Numerical weather prediction (NWP) has significantly improved the accuracy of weather forecasts and enabled the development of services specifically for mariners, including routing advice and forecasts as ECDIS overlays. This practical guide opens up the technology that now forms the basis of all modern weather forecasts so that mariners can recognise when they are being presented with NWP, establish its source and the characteristics and performance of the particular NWP model, and make informed judgements on suitability and use.

Published: **2013** Price: **£55** Member's price: **£38.50**
ISBN: **978 1 906915 40 7** Ref: **0347**

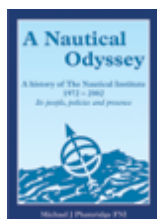


The Expert Witness

M J Bozier ExC FAIMS FNI

A useful guide for those involved in maritime commercial litigation. It covers the role of the expert witness, legal systems, retaining the expert, qualifications, role, duties and responsibilities, collecting and recording evidence, preparing reports, case progression and appearance in court. This book contains useful appendices with legal judgements.

Published: **2006** Price: **£40** Member's price: **£28**
ISBN: **978 1 906915 52 0** Ref: **0288**



A Nautical Odyssey

A History of The Nautical Institute

M J Plumridge FNI

The book tells the story of how The Nautical Institute came to be established in 1972 and chronicles the activities of the first 30 years. It provides an understanding of nautical professional development and will inspire those who share in the belief that the nautical profession provides an essential service to society.

Published: **2003** Price: **£15** Member's price: **£10.50**
ISBN: **978 1 870077 67 5** Ref: **0273**

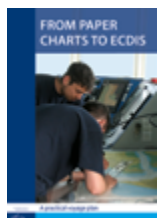


A Simulation Instructor's Handbook: The Learning Game

Jillian Carson-Jackson FNI

This handbook has been developed after years of simulator training experience and discussion with simulation instructors. Simulation is a valuable resource, and it is used increasingly in training, but what about training the trainer? Specialised training on integrating simulators into teaching is not always available. The book is a resource for instructors, or those aspiring to be instructors, who are expected to design and implement simulation training and who may lack information on how to achieve this. The handbook will promote discussion and further development for simulation instructor training.

Published: **2010** Price: **£35** Member's price: **£24.50**
ISBN: **978 1 906915 16 2** Ref: **0327**



From Paper Charts to ECDIS

A practical voyage plan

Captain Harry Gale FNI

This second edition recognises that practical guidance on equipment, training and operational practices is now urgently needed. Everything necessary to manage this fundamental change is covered, and theoretical knowledge is made real through contributions from seagoing members of The Nautical Institute. Best practice is encapsulated in the industry recommendations for ECDIS training and familiarisation.

Published: **2013** Price: **£45** Member's price: **£31.50**
ISBN: **978 1 906915 17 9** Ref: **0350**



Managing Collision Avoidance at Sea

Captain G W U Lee MNI and C J Parker OBE FNI

Collision avoidance as a vital element of ship safety should be recognised in company instructions and Masters' standing orders. Safe strategies are outlined with case studies to help improve collision avoidance practice at sea by examining the ways watchkeeping officers make decisions. Includes managing navigational risk, collision avoidance measures for effective control, applying the COLREGS, ship manoeuvring and collision avoidance.

Published: **2007** Price: **£70** Member's price: **£49**
ISBN: **978 1 870077 86 6** Ref: **0299**



Hatch Cover Inspections

W Vervloesem FNI

This book is an authoritative and superbly illustrated guide to hatch cover surveys and inspections. It contains a large selection of photographs of hatch covers – over 400 – and is an indispensable guide for inspectors, surveyors, fleet managers, P&I clubs and others concerned with claims. Includes photographs of all the main hatch types, photographic evidence of good condition, plus evidence of defects and deficiencies, and a special section on hatch testing including ultra-sound techniques.

Published: **2003** Price: **£115** Member's price: **£80.50**
ISBN: **978 1 870077 62 0** Ref: **0275**





DP Operator's Handbook

Third edition

Captain D Bray FNI

Dynamic positioning is a highly effective tool for precision control of vessels, and its use has spread well beyond the offshore oil and gas sector.

Increasingly, DP capability is found on dredgers, cruise ships, superyachts and vessels involved in renewable energy projects.

In this third edition the content has been revised to take account of advances in technology and its application aboard DP-equipped vessels. It is a practical guide for serving and trainee DPOs and trainers, so concentrates on operational functions, setting up and testing equipment, bridge management and communications.

Published: **2015** Price: **£65** Member's price: **£45.50**
ISBN: **978 1 906915 76 6** Ref: **0392**



Polar Ship Operations – a practical guide

Second edition

Captain Duke Snider FNI

Operating ships within any ice regime requires knowledge, skills and awareness beyond those possessed by most mariners. Written by a respected Arctic shipping expert with extensive operational experience, this book provides practical advice on

conditions, awareness and preparations for transits in polar waters.

Since the first edition was published in 2012, sea ice loss in the Arctic has accelerated dramatically and more, but less experienced, ship operators are becoming active in the area. This edition takes account of IMO's Polar Code, which entered into force on 1 January 2017, and also Arctic Council agreements on SAR and marine pollution.

Polar Ship Operations is an indispensable companion for any mariner contemplating sailing in ice-affected waters.

Published: **2018** Price: **£60** Member's price: **£42**
ISBN **978 1 906915 56 8** Ref **0374**



Handling Ships in First-Year Ice

Second edition

Johan Buysse MMar MSc MNI

First-year ice remains a major obstacle for commercial traffic, limiting vessels' speed and manoeuvrability. Because ice can damage ships' propellers, main engines, rudders and hull plating, handling ships in such conditions

demands specialist knowledge and skills. The author uses his wide experience of operating ice class vessels to offer practical guidance on shiphandling in first-year ice.

This new edition takes account of the Polar Code, heavier traffic in ice-affected waters, better communications and new ice-detection methods, while improved illustrations provide clearer guidance on manoeuvres in ice.

Published: **2018** Price: **£60** Member's price: **£42**
ISBN **978 1 906915 55 1** Ref: **0379**

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ISBN: **978 1 906915 57 5** Ref: **0380**

SCHEMES

The Nautical Institute provides a range of self-study schemes, accreditation and recognition services to provide our members and the industry with the guidance, advice and assistance they will need to develop themselves and enhance their specialist knowledge and proficiency.

The Institute offers a wide range of services from being the sole recognised certification provider for Dynamic Positioning Training to providing one-off audits for compliance against a known standard. It has the capability to operate a full international certification scheme or to work on behalf of Flag Administrations as a designated authority.



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The Nautical Institute DP Operator Training Scheme is the industry-recognised learning route to becoming a qualified Dynamic Positioning Operator (DPO).

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Ice Navigator Scheme has been developed in response to rapidly growing demand for officers with proven expertise in handling ships in ice. This Scheme is open to those who hold, or are studying towards, a deck

officer qualification awarded by a White List administration. Participants must demonstrate practical competence on board and in simulator exercises, and show a thorough understanding of ice regimes, including ice physics, operations in sea ice, hazards, search and rescue and weather. For more information visit:

www.nialexisplatform.org/certification

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The Nautical Institute has established a recognition scheme through which maritime products and services may be formally evaluated and recognised for the purposes of CPD. For more information visit: www.nialexisplatform.org/recognition

Price: **£475**

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Participants are taken through everything needed to conduct a thorough, fair and effective assessment and prepare the post-assessment report. The course will benefit Masters preparing for assessment, inspectors, surveyors, superintendents, marine managers and marine consultants. It is suitable for those seeking to demonstrate they are qualified to conduct navigation audits stipulated in TMSA3 element 5. A Nautical Institute navigation assessors certificate will be awarded after successful completion of the theory and practical elements of the course.

Price: Please enquire courses@nautinst.org

Onboard Assessment for Optimising Performance

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Based on IMO Model Course 1.30, the course complies with STCW Code Sec A-1/6 and TMSA3 element 3. It is suitable for Masters, ship's officers, ship managers, DPAs and technical and marine superintendents.

Price: Please enquire courses@nautinst.org

Improving Performance through the Human Element

Human element failings, often resulting from stress or fatigue, are implicated in many maritime accidents and incidents. An effective way of improving safety, performance and wellbeing at sea is by increasing mariners' awareness of their physical and mental limitations.

This course gives seafarers and managers a better understanding of how one's mind and body respond to the practical realities of working at sea. It complements NI's practical guide, *Human Performance and Limitation for Mariners* (see page 5).

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