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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 practices 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 here 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 15.
- 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.

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The Use of Visual Aids to Navigation

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 over centuries of experience in the Royal Navy where the ECSIS has been applied to the ECSIS 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: 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 experiences 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 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


Alastair Harris MScBA (Hons)

This comprehensive reference lays the foundation for safe and effective navigation at sea, including ocean and coastal passages, piloting and anchoring. The fundamental principles of navigation developed over centuries of experience in the Royal Navy have been applied to the ECSIS 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: £100  Member’s price: £105  ISBN: 978 1 906915 64 3  Ref: 0382


Alastair Harris MScBA (Hons)

Satellite technology enables almost every mariner to use electronic navags to fix their position on the oceans. However, electronic systems can be disrupted by errors in a satellite or its ground control system, affects in shipsboard 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 NVaPac v4 software for astro navigation, including full-colour screenshots. With NvA-Pac, a moonrose 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

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 records what he or she has done, 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, companies, 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

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 landing, 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

Mentoring at Sea

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

Keep in touch — find us on social media
**Maritime Security handbook: Stowaways by sea and Rescue of Migrants**

**Steven Jones MSc BSc (Hons) MNI**

The second handbook in The Nautical Institute’s maritime security suite takes the same practical approach to making a vessel secure against stowaways, managing any that have succeeded in getting on board, collecting the necessary evidence and organising the repatriation process. Improvements in security have not reduced the number of stowaways or the number of incidents and it is seafarers who have to cope with the extra work, delay, uncertainty and possible violence. Preparation and training are needed both on board and ashore, and the handbook covers who stowaways are, why, how trading patterns affect risk, the responsibilities of all parties involved in a stowaway incident and the importance of reporting.

*Price: £60  Member’s price: £42  ISBN: 978 1 906915 03 2  Ref: 0332*

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**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 nautical line, which is based on theoretical principles but explained in a practical way. The foreword is written by the former Secretary-General of the IMO, Eithinios Mitropoulos, and the book is supported by the major international organizations concerned with ship operations.

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

**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 supervisors, 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. It is a natural companion to Moorings, a handbook on theoretical principles and the consequences of incorrect use shown.

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

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**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*

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**The Shipmaster’s Business Self-Examiner**

**Tenth edition**

**Malcolm Macalchan FNI**

Designed primarily as a study aid for Master’s Oal’s, the book is also used by OoW and Chief Mate students and has drawn the praise of many successful Oal 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*

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**Launch and Recovery of Boats from Ships**

**Dag Pike FRIN FMInstES AFNI FRMarEST**

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*

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**Mooring and Anchoring Ships**

**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 BVCCO, 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*

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**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 that are taught in 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*

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**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 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*

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**Driving Lifeboats and Rescue Boats**

**Dag Pike FRIN FMInstES AFNI FRMarEST**

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 to driving small craft in following seas, beam seas, fog, ice and at night.

*Published: 2019  Price: £35  Member’s price: £24.50  ISBN: 978 1 906915 56 7  Ref: 0384*
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 FNIV G F E, examines the hazards on commercial vessels, particularly cargo fires. The handbook provides a refresher for drills and exercises and 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 lifeboat. 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 6 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

Buy the three together for just £95 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 CyCaDes 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 helps maritime professionals participate in marine spatial planning (MSP) was co-written with the World Ocean Council. It aims 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
How Davies MSC MA MBA FloutLM
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 ECo PAIMS 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 1927 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: £25 Member’s price: £18 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 MNM 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 Vervoorn 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 ISBN: 978 1 870077 62 0 Ref: 0275

The Nautical 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 FNIV G F E, examines the hazards on commercial vessels, particularly cargo fires. The handbook provides a refresher for drills and exercises and 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 lifeboat. 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 6 Ref: 0296

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Third edition
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Captain Dukla Snelder FNI

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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 909615 56 8  Ref 0374

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The Nautical Institute has established a recognition scheme that was agreed by industry in 2013.

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Published 2015  Price: £65  Member’s price: £45.50
ISBN 978 1 909615 25 4  Ref 0354

Handling Ships in First-Year Ice

Johan Buysse MMar MSc MNI

First-year ice remains a major obstacle for commercial traffic, limiting its 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.

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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).

The Nautical Institute administers the certification of DPOs together with the accreditation of the training providers and the input from the Dynamic Positioning Training Executive Group (DPTEG).

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