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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.

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- Details of all our publications and ways to pay are on our website. If there are any publications and services you require and cannot find within this list, please email us at: pubs.admin@nautinst.org

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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: £55  Member’s price: £38.50
ISBN: 978 1 880077 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

Eleventh edition
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 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: £145  Member’s price: £101.50
ISBN: 978 1 906915 64 3  Ref: 0382

Eleventh edition
Alastair Harris MScBA (Hons)
Satellite technology enables almost every mariner to use electronic navaids 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: £145  Member’s price: £101.50
ISBN: 978 1 906915 58 2  Ref: 0377

Buy both together for just £270
ISBN: 978 1 906915 65 0  Ref: 0383

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Members receive a 30% discount on all publications

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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: £65  Member’s price: £45.50
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: £65  Member’s price: £45.50
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: £50  Member’s price: £35
ISBN: 978 1 906915 51 3  Ref: 0366

THE HUMAN ELEMENT

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: £35  Member’s price: £24.50
ISBN: 978 1 906915 63 6  Ref: 0381

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: £55  Member’s price: £38.50
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: £55  Member’s price: £38.50
ISBN: 978 1 906915 34 6  Ref: 0362

Keep in touch – find us on social media
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: £40 Member’s price: £28 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 Price: £7 Member’s price: £4.90 ISBN: 978 1 906915 36 0 Ref: 0365

Alert!
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: £35 Member’s price: £24.50 Ref: 0295 ISBN: 978 1 870077 77 4
Alert! Bulletins 13-21
Published: 2009 Price: £35 Member’s price: £24.50 Ref: 0319 ISBN: 978 1 906915 09 4
Alert! Compendium Bulletins 1-40
Published: 2017 Price: £135 Member’s price: £94.50 Ref: 0368 ISBN: 978 1 906915 53 7

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: £50 Member’s price: £35 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: £60 Member’s price: £42 ISBN: 978 1 906915 32 2 Ref: 0361

Buy the two together for just £105
ISBN: 978 1 906915 50 6 Ref: 0363
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: £60 Member’s price: £42
ISBN: 978 1 906915 21 6 Ref: 0357

Guidelines for Collecting Maritime Evidence
Fourth edition + Handbook
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.

Used in conjunction with The Mariner’s Guide to Collecting Evidence – Handbook, 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.

Guidelines + Handbook price: £55 (sold as a set only)
Member’s price: £38.50
ISBN: 978 1 906915 54 4 Product Code: 0369

Maritime Security: A practical guide
Second edition
Steven Jones MSc BSc (Hons) MNI

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: £60 Member’s price: £42
ISBN: 978 1 906915 45 2 Ref: 0341

Maritime Security handbook: Coping with Piracy
Steven Jones MSc BSc (Hons) MNI

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: £40 Member’s price: £28
ISBN: 978 1 906915 46 9 Ref: 0342

Buy with Maritime Security for just £90
ISBN: 978 1 906915 41 4 Ref: 0349

Maritime Security handbook: Stowaways by Sea
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 stows away and why, how trading patterns affect risk, the responsibilities of all parties involved in a stowaway incident and the importance of reporting.

Published: 2014 Price: £40 Member’s price: £28
ISBN: 978 1 906915 47 6 Ref: 0343

Buy with Maritime Security for just £90
ISBN: 978 1 906915 42 1 Ref: 0352
Crime at Sea  New book coming soon
Steven Jones MSc BSc (Hons) MNI
The concept of maritime security embraces a wide variety of threats, and this new publication looks at the kinds of crime most often committed at sea and against seafarers, vessels and cargoes. The book provides background to the issues and sets out practical ways of managing and mitigating the risks, including evidence collection, reporting and dealing with external agencies.

ISBN: 978 1 906915 43 8  Ref: 0353

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.

The author is a former Shipmaster and ex-maritime college lecturer with more than 25 years’ experience in preparing students for MCA examinations.

Published: 2016  Price: £75  Member’s price: £52.50
ISBN: 978 1 906915 35 3  Ref: 0364

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: £115  Member’s price: £80.50
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: £115  Member’s price: £80.50
ISBN: 978 1 870077 94 1  Ref: 0306

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: £75  Member’s price: £52.50
ISBN: 978 1 870077 74 3  Ref: 0290

Members receive a 30% discount on all publications

Are you a maritime professional? Join us: www.nautinst.org
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: £55  Member’s price: £38.50
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: £175  Member’s price: £122.50
ISBN: 978 1 906915 10 0  Ref: 0320

Stability, Trim and Strength in 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: £105  Member’s price: £73.50
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: £145  Member’s price: £101.50
ISBN: 978 1 906915 49 0  Ref: 0356

Launch and Recovery of Boats from Ships

Dag Pike FRIN FIMarEST AFNI AFRMetS

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: £30  Member’s price: £21
ISBN: 978 1 906915 22 3  Ref: 0376

New book coming soon

Driving Lifeboats and Rescue Boats

Dag Pike FRIN FIMarEST AFNI AFRMetS

Crews rarely have the opportunity to put into practice any training they may have on driving the ship’s boats, while drills, carried out in calm seas, are unlikely to replicate real-life conditions. This book, written by a highly experienced navigator, is a practical guide to handling lifeboats and rescue boats and should be essential reading for all seafarers.

A Square Rig Handbook

Second edition

Frank Scott FNI RN (Retd)

Aimed at the sail training sector, this practical handbook explains how the introduction of new materials has influenced design and operation. Advice is given on voyage planning, operations and safety. The different training and equipment needs for vessels with modern technology, rather than those constructed to traditional design, is covered. It is aimed at those who serve, or wish to serve, as Master, mate or boatswain on a square rigger or large fore-and-aft schooner.

Published: 2001  Price: £60  Member’s price: £42
ISBN: 978 1 870077 11 8  Ref: 0079
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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 GIFire 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

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 CyClaDes project.

Published: 2015  Price: £60  Member’s price: £42
ISBN: 978 1 906915 28 5  Ref: 0360

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: £50  Member’s price: £35
ISBN: 978 1 906915 40 7  Ref: 0347

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
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: £35  
Member’s price: £24.50  
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: £20  
Member’s price: £14  
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: £30  
Member’s price: £21  
ISBN: 978 1 906915 16 2  
Ref: 0327

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: £65  
Member’s price: £45.50  
ISBN: 978 1 870077 86 6  
Ref: 0299

The Mariner’s Guide to Marine Communications  
Second edition  
I Waugh  
Aimed at watchkeeping officers and those aspiring to their GMDSS certificates, this practical and concise guide takes the reader through a typical voyage and all the communication routines that will be required, both for safety and commercial reasons. Crew calls are covered and examples of costings are given. Regulations, satellite and land-based radio systems, distress, emergency and safety communications inspections are covered.  
Published: 2007  
Price: £60  
Member’s price: £42  
ISBN: 978 1 870077 78 1  
Ref: 0263

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: £40  
Member’s price: £28  
ISBN: 978 1 906915 17 9  
Ref: 0350

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 ultrasound techniques.  
Published: 2003  
Price: £110  
Member’s price: £77  
ISBN: 978 1 870077 62 0  
Ref: 0275
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DP Operator’s Handbook
Second edition

Captain D Bray FNI

Since the first edition of this handbook was published in 2008 the number of DP vessels and DP operators has increased dramatically. DP vessels are larger, and the industry has become more sophisticated in its use of DP. This edition incorporates changes to The Nautical Institute’s operator training scheme and standards that were agreed by industry in 2013. This edition reflects the latest standards, supports DP training and best practice and provides advice to others who may be experienced in some, but not all, activities. It is a practical guide focusing on operational functions, bridge management, communications and the correct ways to handle equipment.

Published: 2015  Price: £60  Member’s price: £42
ISBN: 978 1 906915 25 4  Ref: 0354

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: £55  Member’s price: £38.50
ISBN 978 1 906915 56 8  Ref: 0374

Handling Ships in First-Year Ice
Second edition

Johan Buisse 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: £55  Member’s price: £38.50
ISBN 978 1 906915 55 1  Ref: 0379

Buy the two books together for just £100
ISBN: 978 1 906915 57 5  Ref: 0380

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.

The Nautical Institute DP Operator Training Scheme

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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For more information about the scheme and details of the revalidation process and transition arrangements visit: www.nialexisplatform.org

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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

Price: £175 + VAT  Member’s price: £155 + VAT

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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

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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

Onboard Assessment for Optimising Performance
The organising, running and delivering of onboard assessments of seafarer competence are covered in this 2.5-day course.

After introducing the shipboard assessment system and the principles of competence-based assessment, it considers onboard assessment in detail, from preparation and briefing to observation and trainee evaluation.

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

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).

Price: Please enquire

Marine Incident Investigation and Analysis
Investigating a major incident at sea demands a high standard of professional competence. This course equips participants with the skills, tools and techniques needed to conduct an investigation, from collecting evidence and interviewing witnesses to understanding the role played by the human element and other causal factors.

The course aligns with IMO Model Course 3.11 and will be of value to Captains, senior ship’s officers, ship safety managers and company safety officers, DPAs, and technical and marine superintendents.

Price: Please enquire

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The Nautical Institute’s Command Scheme
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The International Sail Endorsement Scheme
ISES replaces the Institute’s Square Rig Certificate scheme and is accessible to tall ship sailors. Find out more: www.nautinst.org/ISES

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Published: 2003 Price: £10 Ref: 1513

Fire Safety Systems (FSS) Code
Published: 2015 Price: £30 Ref: 1503

GMDSS Manual
Published: 2017 Price: £110 Ref: 1532

Published: 2012 Price: £50 Ref: 1501

Guidelines for the Implementation of MARPOL Annex V
Published: 2017 Price: £15 Ref: 1530

Published: 2008 Price: £20 Ref: 1521

IAMSAR Manual: Volume III
Published: 2016 Price: £50 Ref: 1516

Published: 2018 Price: £135 Ref: 1536

IMDG Code Supplement:
Published: 2018 Price: £65 Ref: 1537

IMO Standard Marine Communication Phrases (SMCP)
Published: 2005 Price: £40 Ref: 1519

International Convention for Safe Containers
Published: 2014 Price: £12 Ref: 1506

International Code of Signals
Published: 2005 Price: £49 Ref: 1520

International Convention on Load Lines
Published: 2005 Price: £22 Ref: 1512

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Published: 2018 Price: £20 Ref: 1534

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Published: 2017 Price: £50 Ref: 1528

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